



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
901 N. 5TH STREET
KANSAS CITY, KANSAS 66101

OCT 18 2000

REC'D
OCT 27 2000
RESP

MEMORANDUM

SUBJECT: Transmittal of Inspection Report - RCRA

FROM: Betty Berry, Chief
ENSV/ARCM

TO: Cecilia Tapia, Chief
ARTD/RESP

This memorandum transmits the following inspection report conducted by the Environmental Services Division:

Type of Inspection: Complaint investigation	Inspection Date: 6/29-30 and 7/6/00
Inspector: Alma Moreno Lahm	
Facility Name: Gloe Graphics dba Rosse Lithographing	Facility I.D. Number: MOD985805464
Address: 2100 Wyandotte, KCMO 64108	Activity Number:
Facility Activity: lithography	SIC Code:
Multimedia: 1) Was a MM screening checklist completed? Yes a) Was the MM screening forwarded to another program? Yes. TSCA/EPCRA 2) Was this inspection part of a Level C/D Multimedia Inspection? No Other participating programs: Environmental Justice: Was inspection conducted in a <u>potential</u> EJ Area (per MM screening checklist)? No Small Business Regulatory Enforcement Fairness Act (SBREFA): Was information provided? <u>Yes</u>	
Preliminary Findings (list potential regulatory deficiencies): See attached.	NOV/NOPF Issued? Yes Potential SNC? No
Comments: Facility requests a copy of the report. Please send to the attention of Mr. Rosenbrough.	

Attachments



R00401629

RCRA RECORDS CENTER



RCRA COMPLIANCE EVALUATION INSPECTION REPORT

AT

Gloe Graphics Inc. d/b/a Rosse Lithographing Inc.
2100 Wyandotte, 2nd Floor
Kansas City, Missouri 64108
(816) 842-4669
EPA ID Number: MOD985805464

ON

June 29 -30, July 3, July 6, 2000

BY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VII
Environmental Services Division

1.0 INTRODUCTION

The Air, RCRA, and Toxics Division (ARTD) requested a complaint investigation be conducted at Gloe Graphics Inc. d/b/a Rosse Lithographing Inc. in Kansas City, Missouri. The March 17, 2000 complaint alleged "liquid substances leaking through the ceiling of the 2100 Wyandotte Street facility ... located directly beneath part of the Gloe Graphics, Inc., d/b/a Rosse Lithographing Company operation ..." and provided the "test results of the milky aqueous liquid sample taken from around the pipe" at the building, and "the analytical results for the soil samples received on July 6, 1998." A Resource Conservation and Recovery Act (RCRA) Compliance Evaluation Inspection (CEI) with an emphasis on the complaint was conducted on June 29 - July 6, 2000. The CEI was conducted under the authority of Section 3007 of RCRA, as amended. The CEI was conducted as a Level B Multimedia Inspection and a Multimedia Screening Checklist was completed (**attachment 2**). This report present the results of the CEI.

2.0 PARTICIPANTS

Gloe Graphics Inc. d/b/a Rosse Lithographing Inc (Rosse):

Hank Rosebrough, Plant Manager
Brian Gloe, Co-Chief Executive Officer
Greg Edwards, Product Coordinator
Michael Smedley, Pre-Press Foreman

U.S. Environmental Protection Agency (EPA):

Alma Moreno Lahm, Environmental Engineer

3.0 INSPECTION PROCEDURES

Upon arrival at Rosse on June 29, 2000, I requested to speak to Mr. Brian Gloe, the facility contact listed in the latest notification information as obtained from the Missouri Department of Natural Resources (MDNR) and the EPA. I spoke to Mr. Gloe and he informed me that I would also need to talk to Mr. Hank Rosebrough, the Plant Manager. Since Mr. Rosebrough was not available at the time, I began the inspection with Mr. Gloe and later repeated the entry briefing with Mr. Rosebrough. I presented Mr. Gloe (and later Mr. Rosebrough) with my EPA credentials and explained that I was there to conduct a RCRA CEI and a multimedia screening inspection. I explained the authority under which I would be conducting the CEI, the purpose of the inspection and the procedures I would follow. I explained to Mr. Gloe (and later Mr. Rosebrough) my need to collect information and his responsibility to provide accurate information. I showed him (and later Mr. Rosebrough) a copy of Section 1001 and 1002 U.S.C., reading and stressing the two sections I highlighted that cover the consequences of not being truthful and forthcoming with information. I handed Mr. Gloe (and later Mr. Rosebrough) the copy, allowed him to read the highlighted portions I had just read, and I offered to answer any questions. I explained his right to claim confidentiality for business information (CBI) and allowed him to read the Confidentiality Notice. I asked Mr. Gloe (and later Mr. Rosebrough) to identify any personal safety considerations. Both identified that I might want to wear safety glasses, but that it was not required. I explained that my findings are based on my initial observations and that my inspection findings might differ when I wrote the report. I then proceeded with the inspection.

The CEI consisted of a discussion of facility operations, waste generation, and waste management practices. I conducted a review of waste management records and a visual inspection of waste management areas. In doing this, I also spoke to Mr. Greg Edwards and Mr. Michael Smedley. I repeated the entry briefing, as discussed above, with each of them. Mr. Edwards' duties as the Product Coordinator include waste management, but he has only had this responsibility for about 2-1/2 months. Mr. Cody Cochran was previously responsible for waste management. The waste profiling was done during Mr. Cochran's tenure, but Mr. Edwards assisted him, so he is familiar with what occurred. Mr. Edwards told me that sampling was done for the profiling by the environmental company hired by Rosse to dispose of their waste, Millenium Environmental Inc. - MO (MEI-MO) of Scott City, Missouri. He said sampling was done because MEI-MO questioned the profiling responses provided by Rosse. Mr. Smedley, the person most familiar with the plate making process covered that portion of the inspection.

The complaint investigation portion of the CEI consisted of my conversations with Superfund personnel who provided me with the complaint and sample results which they said had been provided to the RCRA compliance officer (**attachment 2**), conversations with Mr. Charlie Troppito (**attachment 3 and 4**), and investigation of the alleged leak. Due to the allegations implying potential illegal disposal, my inspection included a thorough review of processes and MSDS information for all material purchases to assure that all waste streams generated were being properly disposed.

At the conclusion of the CEI and complaint investigation, I summarized my findings and answered questions at the exit briefing. Mr. Gloe attended the exit briefing for a few minutes and Mr. Rosebrough attended in its entirety. I gave Mr. Rosebrough a Request for Confidential Treatment Form and a Receipt for Documents and Samples, which he signed as acknowledgment of receipt (**attachments 5 and 6**). A confidentiality claim was made during the time of the inspection. I noted violations at the time of the inspection and I provided Mr. Rosebrough with a Notice of Violation (NOV) which he signed as acknowledgment of receipt (**attachment 7**).

I provided compliance assistance to Mr. Rosebrough to help him understand the regulations. I explained to him that MDNR regulations make a generator subject to small quantity generator (SQG) requirements if 100 kilograms (kg) of hazardous waste is accumulated at any one time, even if the monthly generator rates are less than 100 kg. I made a copy of my MDNR RCRA regulations, provided it to him and highlighted relevant portions that he needs to focus on. I also provided him with a used oil handout, the U.S. EPA Small Business Resources handout, and answered his questions. Mr. Rosebrough requested a copy of the inspection report and additional information relevant to the printing industry, if available.

4.0 FACILITY & PROCESS DESCRIPTION

Rosse, owned by brothers Brian and Keith Gloe, is located at 2100 Wyandotte, where Rosse leases the 2nd and 5th floors of the building from building owners Sam and Linda Long. Rosse Lithographing Inc., founded in 1961, began operating at this location in 1991. Gloe Graphics Inc. was founded in 1988. From 1988 to 1992, the businesses of Gloe Graphics Inc. and Rosse Lithographing Inc. were consolidated. In 1992, in purely a paperwork transaction, not a sale, the two businesses were merged into one entity. From that point on, Gloe Graphics Inc. began doing business as Rosse Lithographing Inc., referred to as Rosse in this report.

The company occupies about 50,000 square feet, employs 62 people, and operates Monday through Friday, using three shifts for operations from 6:00 am - 2:00 pm, 2:00 pm - 10 pm and 10:00 pm - 6 am. The office hours are from 8:00 am - 5:00 pm. Weekend work is done only on an as needed basis. A newspaper article released after the inspection (**attachment 8**) contains a photograph of the facility's northeast corner. The northeast overhead door mentioned in subsequent photos is pictured in the newspaper article photograph. The article is included in this report to provide the reader perspective.

Rosse is a lithographic business which prints various materials (magnets, photos, cards, etc.) and documents using off-set lithography machines. Major raw materials used are primarily paper and ink, plus film. The standard industrial code (SIC code) that applies to Rosse is 2752.

The process operations consist of: film being developed and used to make plates; the plates, ink and paper used on a press to create printed material; and the printed material being cut, folded, stitched, and packaged for delivery to the customer. Printing is done by hanging the plate on the cylinder and putting it on the machine. Ink and water are put onto the plate. Water (without

alcohol) keeps the non-image area clean. Ink creates the image. The image is transferred from the plate to a rubber blanket which is on another cylinder. The blanket can be thought of like a stamp. The blanket transfers the image onto the paper as it passes between the blanket and the impression cylinder.

5.0 AREAS VISUALLY INSPECTED

I inspected all Rosse operations areas, and marked the satellite/ storage accumulation areas on the facility map (**attachment 9**). Areas where apparent violations were noted are discussed below.

6.0 FINDINGS AND OBSERVATIONS

6.1 RCRA Status

Rosse submitted a Notification of Hazardous Waste Activity and indicated the facility generates D001 hazardous waste in small quantity generator quantities. To determine and verify waste stream generation rates and generator status, I discussed all waste streams with Mr. Rosebrough. I reviewed records requirements such as generator hazardous waste summary reports, manifests with associated paperwork, tolling agreements with associated paperwork, contingency items, and training records.

Based on that review and information collected during the RCRA CEI, it appears Rosse routinely generates hazardous waste at SQG quantities. I inspected Rosse as a SQG of hazardous waste. I completed the compiled checklist (**attachment 10**), and the EPA RCRIS Handler Information Report (**attachment 11**).

6.2 Wastes Generated On-site and Associated Violations

Lithography activities are the main sources of the facility's hazardous waste. The waste streams routinely generated by Rosse are listed below. Only the first one listed is a hazardous waste. However, due to the allegation and sampling results raising the concern for potential illegal disposal, details are provided on all the raw materials used and waste streams generated. Waste stream information provided in the table below was provided by Mr. Rosebrough, unless otherwise noted. During the inspection, Mr. Rosebrough attempted to answer my questions regarding the waste streams, but he did not have all the information available. He repeatedly attempted to obtain the information, but with the July 4th Holiday, his vendor contacts were not available. After the inspection, Mr. Rosebrough sent me some documentation that he had committed to sending me during the exit briefing, via facsimiles (**attachments 12 and 13**).

#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERATION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGEMENT
1	Blanket wash and water	<p>Blanket wash and water is a water miscible wash referred to simply as "blanket wash". It is 85 % blanket wash and 15% water, a clear liquid (photo 1), and its density is 6.74 pounds per gallon. VWM is the Varn Products product name for the wash that was used before. Currently #04855 Blanket Wash (MSDS in attachment 14-1 thru 14-5) is used. Still, the name VWM is customarily used at Rosse.</p> <p>As of 11/98 this waste is generated from the new press which has an automatic blanket washer. The automatic blanket wash cleans the blanket. The new press was installed in the Summer of 1998, but it was not put into service until 11/98.</p> <p>Blanket wash is <u>not</u> generated from the old presses, 640 press and 240 press (attachment 9-1). See 2nd paragraph under Generating Process in waste stream #2 for details. Photo 2 shows a view of the insides of the 240 press.</p>	<p>D001 hazardous waste for ignitability per testing (attachment 15, 12/10/99 authorization letter and waste profile). Blanket wash is listed as "Waste Petroleum Distillates" in the letter and the manifests (attachment 16).</p> <p>Since the MSDS in attachment 14 does not list the actual ingredient concentrations, I contacted Thompson Chemicals & Solvents on 7/3/2000. The information, provided to me as CBI is not in this report. I concluded based on the information provided that the solvent is not a listed waste and is ignitable (D001).</p>	Generate ~ 1.6 drums per month. Based on composition, the density was calculated to be ~6.90 pounds per gallon. This calculates at ~607 pounds per month or 276 kilograms per month.	The automatic blanket wash cleans the blanket and discharges the wash and water mixture directly into a blue metal 55-gallon drum. When full, the drum is transferred to the 5 th floor for storage. Mr. Rosebrough and Mr. Edwards told me the drums are labeled by the waste hauler when they pick up.	The waste is picked up by Millenium Environmental Inc. - MO (MEI-MO) in Scott City, Missouri. See manifests in attachment 16. See pricing proposal in attachment 17.
<p>NOV #4 - Storage Container of D001 Blanket Wash and Water Not Labeled or Marked per DOT - During the facility tour of the 5th floor storage accumulation area, I observed one 55-gallon blue metal drum that was closed, but was not properly labeled (Photos 3, 4, and 5). Failure to properly package/label/mark waste containers per DOT during the entire on-site storage period is in violation of 10 CSR 25-5.262(2)(C)1.</p> <p>NOV #5 & #6 - Storage Container of D001 Blanket Wash and Water Not Marked with the Date of Accumulation and Not Clearly Marked "Hazardous Waste" - During the facility tour of the storage accumulation area on the 5th floor, I observed one 55-gallon blue metal drum that was closed, but was not marked with the date of accumulation and was not marked with the words "Hazardous Waste" (Photos 3, 4, and 5) in violation of 10 CSR 25-5.262(1) incorporating 10 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(2) and (3).</p> <p>NOV #7 - Satellite Accumulation Container of D001 Blanket Wash Not Closed - During the facility tour I observed a satellite accumulation container near the new press. The top of the drum was labeled with the contents (photo 6). However, the bunge hole where the blanket wash inlet hose enter the drum was not closed or properly sealed (photo 7). Mr. Rosebrough explained that since the blanket wash is automatically generated from the machine based on a preset number of work items and press conditions, and that point is automatically determined by the machine and unpredictable, the hose needs to be permanently in place in the bunge hole. Also, he explained that the satellite drum where the blanket wash is collected is pumped in under pressure. Thus the bunge hole was not sealed because if it was the contents would back up and shut down the press. We discussed how modifications could be made to accommodate both needs. Failure to keep satellite accumulation containers of hazardous waste closed is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.173(a).</p> <p>NOV #3 - Storage of D001 Blanket Wash and Water Over 90 Days (erroneously listed 270 days on NOV) - I identified a gap in manifests. When I asked Mr. Rosebrough for additional manifests, he told me there were no more. He checked the Vendor History Reports (attachment 18) and determined there were no shipments from 12/4/97 to 9/27/99. Mr. Rosebrough and I estimated (attachment 19) based on the generation rate, that Rosse became a large quantity generator (LQG) per MDNR regulations between February and March 1999, when 1000 kg of this waste were accumulated on-site. After that point, any waste generated became subject to 90 days storage, until Rosse went below the 1000 kg accumulation limit (~ 5 drums). Over that period when Rosse was an LQG, four drums generated in different months were stored in the range of one to three months over 90 days, in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(e).</p>						
2	Used shop rags	Used shop rags are generated from cleaning off ink on the press or liquids that seep (oil) or solid (lint and dust) that accumulates as part of the normal operating process. Rags with Film Kleen (attachment 14-6 thru 14-10, MSDS) are used to wipe off particles on the plates in the plate-making process. Rags with Color Wash Step -1 (attachment 14-11 thru 14-13, MSDS) are used to clean the rollers.	Not a solid waste or hazardous waste since laundered.	Unknown. Mr. Rosebrough attempted to get this information from his vendor, but the vendor	The rags are placed in a 55-gallon barrel or small 5-gallon cans at the points of generation (photo 8). They are picked up	Walker Towel & Uniform Service (attachment 20, agreement) in Kansas City,

#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERATION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGEMENT
		Blankets are cleaned manually with a rag that has Lacolene (MSDS in attachment 14-14 thru 14-17) put on it. Thus, Lacolene is called "blanket wash".		did not return his phone calls.	from the points of generation for laundering.	MO launders. The contact is David Shapiro.
3	Fluorescent Light Bulbs	Fluorescent light bulbs are generated when lamps are changed in the office space and plant. They use 4 feet and 8 feet long bulbs. They use special color correcting lights by Just Norlich in the production space and regular office light bulbs.	The regular office light bulbs are non-hazardous based on the MSDS (attachment 12-4 thru 12-9). However, the Just Norlich lamps, could potentially be hazardous for mercury (attachment 21).	Rosse generates 24, 8 feet bulbs per month and one 4 feet bulb per month, per Mr. Edwards.	Light bulbs are thrown in the trash.	Trash pickup is done by Deffenbaugh.
NOV #1 - Failure to Make a Hazardous Waste Determination - During the inspection Mr. Rosebrough could not provide me the MSDS for the fluorescent light bulbs used and could not tell me whether the light bulbs would be hazardous or not. He was not even aware that fluorescent light bulbs could be potentially hazardous so we had a discussion about this. Therefore I cited Rosse for failure to make a hazardous waste determination on the spent fluorescent light bulbs in violation of 10 CSR 25-5.262(1).						
4	Spent Inks & Expired Inks	<p>Spent inks are generated when color changes are made between jobs and there is leftover inks from the current job. Not every job requires ink changes and changes are minimized as much as possible. Per Mr. Gloe, many inks are soy based.</p> <p>Expired inks are dealt with the same way as spent inks.</p>	<p>Non-hazardous based on product, process knowledge and testing. Mr. Rosebrough also stated that the spent inks are not hazardous per PIA, the Printing Industry Association.</p> <p>Most inks used are covered by the Toyo Ink MSDS (attachment 14-18 thru 14-20). Only M/C-T X/S Pantone (R) Warm Red (attachment 12-24 thru 12-25) has a TCLP constituent (Barium). Whether it leaches and fails TCLP depends on the pigment concentration. It is one of many inks used in smaller quantity. Waste profiling and sampling were done by MEI-MO and it tested non-hazardous (attachment 22).</p> <p>I conclude the inks are not hazardous.</p>	The rate of generation was estimated to be less than 55-gallons per month. Mr. Edwards estimated one drum is generated about every 1-1/2 months to 3 months.	When spent inks are generated from the presses, they are placed in a central 55-gallon drum in the shop floor. Expired inks are managed likewise. Ink container contents are emptied into a 55-gallon drum. When the drum is full, it is transferred to the 5 th floor for storage (photos 9, 10, 11 and 12). When 4 or 5 drums are collected the disposal company is called for pickup.	MEI-MO picks up the waste manifested as not DOT regulated and non-hazardous (attachment 16). There were no shipments from 12/4/97 to 9/27/99 (attachment 23 , Quarterly Report), so 16 drums were manifested on 9/28/99 (attachment 14-10).
5	Used Oil	<p>Used oil is generated out of the presses where it is used as a lubricant. The lubricating oil is removed every year to 1-1/2 years.</p> <p>However, Mr. Edwards who is responsible for waste management told me indirectly that the oil from the presses is changed every 6 months. This is how I obtained the information: I asked Mr. Edwards why 13 drums were shipped on 10/27/99. He told me he orders 3-55 gallon drums of oil at a time. He said he orders ~ 6 drums per year. (From</p>	The press machine oil was determined to be used oil by process knowledge and testing (attachment 14-5 and 14-6 , authorization letter and profile).	One drum of used oil is generated per year per press. There are three presses. It is generated all at once over a one	Used oil is pumped into a 55-gallon drum directly from the press using a hose (photos 13 and 14), then stored on 5 th floor. At pick up time, the drum is	As of 9/99 this waste has been picked up by MEI-MO. It is listed on the manifest as non-RCRA regulated

#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERATION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGEMENT
		12/4/97 to 9/9/27/99 there were no wastes manifested off-site.) He said at the time of the shipment, there was one or two drums that had the caps off and they did not want to take any chances, so they shipped them off as used oil. He said that might explain the 13 drums.		hour period.	taken to the dock on 1 st floor. Used oil is pumped from the drum to the truck by MEI-MO and the drum is left for reuse.	machine oil (attachment 16-12). Mr. Rosebrough is not sure what MEI-MO does with the oil.

NOV #14 - Failure to Clean Up Used Oil Spill - In following up on the complaint portion of the investigation, I attempted to find evidence of the alleged "liquid substances leaking through the ceiling of the 2100 Wyandotte Street facility ... located directly beneath part of the Gloe Graphics, Inc. d/b/a Rosse Lithographing Company operation" (attachment 2). I photographed what appeared to be a spill with kitty litter sprinkled on it on the 1st floor of the building beneath part of the Rosse operation (photo 15). I also photographed pipes in the ceiling area near the spill and kitty litter on the 1st floor of the building (photo 16). No leak there or nearby was apparent. In addition, the space occupied by Rosse is extensive (50,000 square feet of leased space, although not all on 2nd floor), with numerous pipes throughout the 1st floor ceiling and with no information in the complaint (attachment 2) to limit the area to focus on, it was near impossible to locate a potential leak. Therefore, I photographed what was in the area above the only visible spill on the floor. Although it is simply conduits, it was the pipes in the area. In hopes of narrowing down the area to focus on and enhance the possibility of locating the potential leak, on 7/3/2000 I attempted to contact every attorney and the receptionist at The Session Law Firm, but no one was available. Therefore I called Kingston Environmental Services, Inc. (who provided the test results) and was able to speak to Mr. Charlie Troppito. Based on a conversation with Mr. Troppito on 7/3/2000 (attachment 3), I was led to believe that I needed to be looking two parking spaces over for a pipe that had leaked about 10 - 15 feet west of the east wall. I took two photographs of the sewer line (photos 17 and 18), which was the only pipe in the vicinity that showed any signs of staining which could be indicative of a past leak. Since I was not confident the leak was originating from either of these sources photographed and Mr. Troppito had initially offered to meet me at the building to help me locate the pipe, I contacted Mr. Troppito on 7/5/2000 to ask for his assistance. We agreed to meet at the 1st floor of the building. I told him I also had "analytical results for soils samples" (attachment 2), and asked him where and how the samples were taken. He told me the sample was "scraped off the floor where it had dripped off the pipe." Once we met at the building, I showed Mr. Troppito the ceiling area based on his description and how I could not find any real sign of a leak based on his description. He looked at the ceiling and pipes and stated that perhaps he was mistaken on the direction of the pipe. He explained it had been some years since the sampling was done. We then looked around together in the ceiling space nearby and he suggested that the leak was from the pipe shown in photo 19. He pointed out how the pipe appeared moist, so I asked him to hold the flashlight focusing on that area and I photographed it. I explained how I had learned from the facility representative that the particular pipe he was pointing out was a sewer pipe, and that it didn't make sense that particular pipe would have leaked, given the sample results I had received for the liquid sample. I told him I thought it also would have really stunk given it was a sewer pipe in such an old building, and that I did not understand how it would have been sampled. I then asked him exactly where and how the sampling was done. He told me he had not actually taken the sample himself, so he did not know. We proceeded to leave the building, and as we left, he told me how he had become involved in the sampling (attachment 4). He said the "building owners' attorney called to say people were complaining that they would park cars in the 1st and 2nd spot and would get drippage on the paint and the paint would discolor and peel". He was asked to take samples. On 7/6/2000, with Mr. Rosebrough's help in locating the area below the production area and in lighting the ceiling with a flashlight, I was able to locate a leak along the ceiling of the 1st floor of the building (photos 18 thru 30). I also observed moisture along the ceiling just southwest of the area with the leak and in line with a pipe closest to the ceiling (photos 19, and 33 thru 35). The area with the moisture along the ceiling is almost directly below the sink on the 2nd floor. (See subsequent photos related to the leak on the building's 2nd floor.) I also photographed the spill with kitty litter sprinkled on it on the parking lot floor (photo 36). I then went to the 2nd floor and was able to trace the leak on the 1st floor to a spill originating from the machine oil pump of the 640 Press (Old Press). See attachment 8-1 for the location. I took photographs of the 640 Press (photos 37 and 38) to show that it is located directly above the area with the ceiling leak/ floor spill on the building's 1st floor. I observed a used oil leak from the routine/ normal operation of a pump associated with the old press and rags placed on the floor being used in an attempt to contain the leak (photos 39 thru 40). It appears that used oil spilled on the floor of the building's 2nd floor from routine/ normal operation of equipment has leaked through the ceiling on the building's 1st floor and spilled onto the floor of the building's 1st floor. Rosse does not have access to the ceiling or the floor on the 1st floor of the building, since Rosse only leases the 2nd floor. Mr. Rosebrough and Mr. Gloe both told me that they have repeatedly attempted to clean the spill on the 1st floor but have been denied access by the building owner. They explained that a person representing the building owner places kitty litter on the spill on the floor of the building's 1st floor, absorbs the spill with the kitty litter, then picks it up and places the contaminated kitty litter in the general trash dumpster. Rosse does have access to clean the leak of used oil on the 2nd floor of the building. Failure to clean up used oil spilled on the floor of the building's 2nd floor is in violation of 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(d).

NOV # 17 - Failure to Properly Label Drum of Used Oil - During the facility tour on 7/6/2000, I observed a 55-gallon drum of VWM Wash that had used oil in it. The container was labeled "waste oil", but not "used oil" (photo 41) in violation of 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(1).

#	NAME	GENERATING PROCESS	HAZARDOUS DETERMINATION	ESTIMATED GENERATION RATE	ON-SITE MANAGEMENT	OFF-SITE MANAGEMENT
6	Blankets	A blanket is a dry rubbery sheet that is hung on a cylinder between the plate cylinder and the impression cylinder. It picks up the ink from the plate and then transfers the image to the paper as it passes between the blanket and the impression cylinder. The blankets are eventually removed and thrown in the trash.	Non-hazardous based on product and process knowledge.	Unknown rate. They buy 36 blankets per month, but not all are used before buy next.	They are placed directly into the dumpster in the shop floor. They are then compacted on the 1 st floor in the back.	Deffenbaugh picks up the general trash.
7	Old Film	Film is used to burn the image on the photosensitive plate for printing. Film has to be kept for 5 years. It is tracked by job number. During slow periods in production, Rosse takes the film over 5 years old and separates it on a skid to be picked up by the recycler.	Old film is recycled for silver recovery and is excluded per Part 261.6.	Generate ~1000 pounds each time, but period varies. Last pickup was 4 to 5 months ago.	Old film is placed in a fiber drum (photo 42) or on a skid for pickup by recycler.	Girard Silver Recovery in Lee's Summit, Missouri (attachment 13-3) picks up.
8	Aluminum Plates	A plate has a red photosensitive coating. The film is placed over the plate. Light hits the film and hardens the red coating to create the image on the plate. The plate is run through a plate processor that removes the excess coating and yields the non-image area of the plate. When they are no longer needed and cannot be reused, aluminum plates become a waste.	Aluminum plates are recycled for the aluminum, excluded per Part 261.6.	742 pounds are generated per 6 months	The aluminum plates are placed in a gaylord.	KC Iron & Metal, located at 1411 East 19 th Street in Kansas City, Missouri, recycles it.
9	Spent -- Developer, Fixer & Rinsewater	Spent developer, fixer and rinsewater are generated from the film development process from a Kodak owned machine. Kodak Prof Aqua-Image Negative Developer, RA2000 Developer and Replenisher, Negative Developer Finisher, 3000 Fixer and Replenisher, Processor Cleaner, and 3M Color Proofing III Developer Concentrate - Yellow, Magenta, Cyan and Black are the products used (attachment 14-49 thru 14-58, MSDS).	Non-hazardous based on product and process knowledge per Kodak manufacturer. Also, it is excluded as a solid waste per Part 261.4 since it is discharged to the sewer that passes through a POTW.	Unknown	The spent developer is sent directly to the reclamation unit (photo 43) for silver reclamation. After reclamation, the spent developer, fixer and rinsewater go directly to the sewer (photos 43 and 44).	Kansas City, Missouri POTW
10	Rinsewater and Sponges with Plate Cleaners	In the plate development process mentioned above a cleaner/preserver is applied with a sponge to clean the non-image areas that are <u>not</u> repelling ink; the plate areas that hold water are desensitized so the ink does not "scum" into the non-image areas. Plate Nu, Petro Gum, or On the Fly are used. The sponge is rinsed and squeezed out into a bucket of water. The sponge is rinsed and reused, but occasionally replaced and generated as a waste.	Non-hazardous based on product and process knowledge, see MSDS (attachments 14-21 thru 14-26). The rinsewater is excluded per Part 261.4 since it is drained into the sink and passes through a POTW.	It is estimated at most, about 2 sponges are generated per year, and at least once every 4 years.	The water is disposed down the sink drain. Sponges are occasionally thrown in the general trash.	Kansas City, Missouri POTW handles the rinsewater. Deffenbaugh picks up the general trash.
11	Spent Press Filters	Flat filters, 11" by 17", used to collect paper dust particles and ink particles in the recirculating water, become a waste when replaced.	Non-hazardous based on product and process knowledge.	Unknown	They are thrown directly in the trash.	Deffenbaugh picks up trash.

6.3 Wastes No Longer Generated but Generated in the Recent Past

Since the sampling results provided with the complaint raised the concern for potential illegal disposal and the samples were taken in 1998, I had to investigate all the raw materials used and waste streams generated during that time period. While reviewing manifests, waste authorizations and profiles, and MSDS information, I noticed some waste streams that had not been identified as being generated. I discussed them with Mr. Edwards and Mr. Rosebrough and found that they are no longer generated, but had been generated during the period in question. I was particularly concerned with the dampening solution (profile waste #2) and etching solution (profile waste #4) (**attachments 24-4 and 24-8**, respectively). The dampening solution and the etching solution waste profiles indicated TCLP levels for silver that would have made the waste D011 characteristic. Yet these wastes were manifested off-site on 10/27/99 as D001 and non-regulated, respectively. Failure to make an adequate hazardous waste determination on the dampening solution and the etching solution is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.11. (NOV #2)

Mr. Rosebrough told me that Dampening Solution 9010 (MSDS in **attachment 14-27 thru 14-30**) was an additive to the Genesis etching solution (MSDS in **attachment 14-31 thru 14-35**). He said the combination was a replacement for an alcohol solution. Mr. Gloe had told me earlier that sometime in 1989 to 1990 Rosse had switched to the aqueous plates from the plates that would be used with alcohol. Mr. Rosebrough told me that the Genesis etching solution was used on the 240 press for about 1-1/2 to 2 years. He said as they started to use the 240 press less and less since it only prints two colors, they started using the Genesis etching solution less and less, so they decided to eliminate it. It was changed to a one step solution several years ago. In 1999, Rosse got rid of an unused partial barrel of Dampening Solution 9010 (product).

Anchor Emerald Premium DAQ (MSDS in **attachment 14-36 thru 14-40**) is the new etching solution. It is used straight or with water to keep ink off the plate. The etching solution goes in the machine. A rubber blade pulls ink off the blanket so the blanket is clean before it gets ink on it again. Then the etching solution breaks down the ink, so it does not gunk up the machine. It is never generated as a waste because it is soaked up in the paper and evaporates a bit in the machine. The machine is set up to automatically add in more etching solution as needed.

An old press was removed about the same time the new press was installed, in the Summer of 1998. The old press used Glycol Ether EP (MSDS in **attachment 14-41 thru 14-43**) as a coolant. Glycol Ether EP is 99% ethylene glycol. Glycol Ether EP is no longer used now and it was never generated as a waste. Dowtherm is the new coolant (**attachment 12-16 thru 12-21**) used in the new press. It is mixed at 25% Dowtherm to 75% water or 50% Dowtherm to 50% water. However, the cooling system is a closed system that only requires replenishing of coolant, so Dowtherm is not routinely generated as a waste.

Aqueous coating CK-303 (MSDS in **attachment 14-44 thru 14-45**) is one of the wastes listed in the profiles. Mr. Rosebrough told me this is not a routinely generated waste. He said the only

way this waste would be generated is if the aqueous coating were contaminated with something. He said maybe that is why it is listed in the profile with water-based coolant, because he cannot think of any water-based coolant used. He told me this is a coating that is applied on styrene type materials that are printed as a coating. An example of this is magnets that have game schedules or business name and phone number listed on the magnets.

Pure Gum Arabic 14 BE (MSDS in **attachment 14-46 thru 14-48**) is put in the water used in the press (to keep ink away from the non-image portions of the plate). The water is recirculated, filtered and chilled for use. It is not generated as a waste.

In the past, Rosse used to work expired inks into the black ink. However in May 2000, they switched vendors and therefore decided to dispose of the expired inks instead. One drum of expired inks was generated and manifested off-site (**attachment 14-17**).

I was also told that the drum of Petroleum Distillate manifested on 10/27/99 (**attachment 16-12**) was for a mixture of used oil and water from a line rupture. The pipe that supposedly leaked in 1998 is shown in **photo 45**.

I was told that the only real leak of material that has occurred at Rosse was on June 3, 1992 and it required an emergency spill response. A barrel of aqueous coating was spilled in the alley. It was product that had just been brought in, but the production staff was so upset by the incident that an emergency spill response crew was called in. I was shown the paperwork to support what I was told (**attachment 25**).

I told Mr. Gloe that I had been asked to assess the structural integrity of the supports for the new press, but that I was not qualified to render such an assessment, given that I am not a structural engineer. Mr. Gloe showed me several engineer's studies/reports and letters attesting to the structural integrity. One report that I read even indicated the structural support provided exceeded the requirements. Mr. Gloe explained to me that he had the structure evaluated before and after installation because the building owner had given him such a "hard time" about this issue. To further assure me that Rosse is managing its waste properly, he gave me a copy of the Emissions Inventory Questionnaire (**attachment 26**) and told me how the City's Air Program inspects the facility frequently throughout the year.

6.4 Preparedness and Prevention and Emergency Procedures

During the facility tour on 7/6/2000, I observed that although there were many fire extinguishers clearly visible throughout the production area, the fire extinguisher and spill control equipment locations were not posted near any of the telephones. Failure to post the location of fire extinguishers and spill control equipment near a phone is **in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)**. (NOV#16) In fact, when I asked to see the spill control equipment, Mr. Rosebrough verified that there was no spill control equipment available. We discussed what he should get. Failure to have spill control, decontamination and safety

equipment available is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32 as amended by 10 CSR 25-5.262(C)2.G.. (NOV#15)

6.6 Quarterly Reports, Manifests and Tolling Agreements

Generator hazardous waste summary reports were reviewed starting with waste generated for the period ending December 1996 and ending with the latest quarterly report filed. The only notable filing was on 5/1/98 at the request of MDNR (**attachment 23**); Rosse had not filed a report initially since there were no shipments for that period. There were no violations noted.

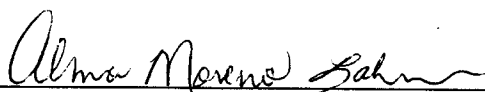
Rosse has been shipping its hazardous waste most recently through MEI-MO. There appears to have been 8 hazardous waste manifests used between 6/96 and 5/2000 (**attachment 16**).

Numerous additional manifest violations were found during the review and are explained below:

- An incorrect EPA ID number was used on manifest numbers 00004, 00005, and 00006. Failure to use the correct EPA ID number on manifests is in violation of 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(a) as amended by 10 CSR 25-5.262(2)(B)1. (NOV#8)
- A consecutive shipment number was not used for the shipment on 11/2/99; manifest number 00002 was used twice. The correct consecutive shipment number would have been 00004, which was used later on the 12/8/99 shipment. Failure to use consecutive shipment numbers on manifests is in violation of 10 CSR 25-5.262(2)(B)2.A. (NOV#9)
- For the 10/27/99 shipment of "Combustible Liquid, N.O.S. (Petroleum Distillate), Combustible Liquid, UN 1993, PG III, ERG#128" under manifest #0003 (**attachment 16-12**), this DOT shipping name does not match the name listed in the corresponding profile number C3066-02, "Dampening Solution". The DOT description listed is for profile number C3066-01, (Solvent). Thus, it is not clear whether dampening solution was shipped or not. According to Mr. Edwards, the "Combustible Liquid, N.O.S. (Petroleum Distillate), Combustible Liquid, UN 1993, PG III, ERG#128" was for a mixture of oil and water from a line rupture. Failure to list the correct DOT shipping name is in violation of 10 CSR 25-5.262(2)(B)1 and 2. (NOV#10)
- Manifests 00002 and 00003 for shipments on 10/27/99 do not list the specific gravity of the waste. Failure to do so is in violation of 10 CSR 25-5.262(B)1 and 2. (NOV#11)
- The 10/27/99 manifest #00002 and the 11/16/99 manifest #00002 did not have an LDR notification/ certification attached for the D001 Blanket Wash (profile waste #7) at the time of shipment. Per Mr. Rosebrough's facsimile dated 7/12/2000 (**attachment 13**), profile wastes #1 and #7 are the same, Blanket Wash. Thus an LDR notification/ certification was not filed until 11/16/99, after the shipment dates (**attachment 27**).

Failure to adequately test or use knowledge of the waste to determine if the waste is restricted from land disposal and to send the "Land-Ban" notification/certification with manifests or with the 1st shipment under a tolling agreement is **in violation of 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a).** (NOV#12)

- The correct EPA hazardous waste number was not listed for the etching solution and the dampening solution on manifest # 00003 for the 10/27/99 shipment. Based on the TCLP results in the waste analysis profiles (**attachments 24-8 and 24-4**, respectively), both these wastes would be D011 characteristic for silver. The etching solution and the dampening solution were shipped as non-regulated and D001, respectively. Failure to list the correct EPA hazardous waste code is **in violation of 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(b)(4) and (5).** (NOV#13)
- I noted that in manifest # 00004 for the 12/8/99 shipment, the profile waste number listed is for dampening solution. Mr. Rosebrough explained that what was shipped was actually blanket wash and the manifest was in error. The 7 drums should have been listed under item b. The generation rates for the blanket wash are consistent with the shipment on 12/8/99. There is no violation because the correct waste code is still listed.



Alma Moreno Lahm
Environmental Engineer
Date: 9/27/2000

Attachments:

1. Region VII Multimedia Screening Checklist (2 pages; 1 page double-sided)
2. Complaint and Results of Samples Taken and Analyzed by Building Owners' Contractor (9 pages)
3. 7/3/2000 Telephone Conversation Record with Mr. Charlie Troppito (Owners' Contractor) (1 page)
4. Notes from Meeting Mr. Charlie Troppito at 2100 Wyandotte Building on 7/5/2000 (1 page)
5. Confidentiality Notice (1 page)
6. Receipt For Documents and Samples (2 pages)
7. Notice of Violation (3 pages)
8. 8/8/2000 Kansas City Star Newspaper Article on the 2100 Wyandotte Street Building (1 page)
9. Facility Map (2 pages)
10. Checklist (12 pages)
11. EPA RCRIS Handler Information Report (1 page)
12. 7/11/2000 Facsimile from Hank Rosebrough (60 pages)
13. 7/12/2000 Facsimile from Hank Rosebrough (3 pages)
14. Material Safety Data Sheets (MSDS) for Raw Materials Used (16 MSDS total for 58 pages)

15. 12/10/99 Authorization Letter to Accept Waste #7 - Petroleum Distillates (Blanket Wash) and 12/8/99 Waste Analysis Profile (2 pages)
16. Waste Manifests and Invoices (10 manifests for a total of 17 pages)
17. 10/15/99 Pricing Proposal by Millenium Environmental Co. (1 page)
18. Vendor History Reports (2 pages)
19. Estimation of Accumulation Quantities and Time frames (2 pages)
20. Towel & Uniform Service Shop Towel Sale/Rental Agreement (1 page)
21. 9/12/2000 Facsimile from Hank Rosebrough (3 pages)
22. 1/12/2000 Authorization Letter to Accept Waste #6 Modified and Waste #8, and 12/8/99 Waste Analysis Profile (4 pages)
23. 5/1/98 Hazardous Waste Summary Report (4 pages)
24. 10/25/99 Authorization Letters to Accept Wastes #1 - #5 (Solvent from Cleanup, Dampening Solution from Cleanup, Machine Oil from Cleanup, Etching Solution from Cleanup, Color Wash from Cleanup), 10/22/99 Waste Analysis Profiles for Wastes #1 - #5, and 11/23/99 Waste Analysis Profile for Waste #6 (Water Based Coolant) (12 pages)
25. Invoice for Emergency Spill Response Services 6/9/92 (6 pages)
26. Emissions Inventory Questionnaire (EIQ) done 3/3/2000 for 1999 (10 pages)
27. 11/16/99 LDR Notices for Wastes #1 - #5 in 10/22/99 Waste Analysis Profiles (6 pages)

Photolog (8 pages)

Photographs (15 pages/45 photos)

REGION VII MULTIMEDIA SCREENING CHECKLIST

Globe Graphics Inc. DBA

Facility Besse Lithographing Co. Facility Ownership Private
 Street 2100 Wyandotte 2nd floor Facility Contact Brian Gloc
 City Kansas City Phone (816) 842-4469 SIC code 2152
 State MO Zip 64108 Number of Employees 62 Work Hours/Shifts 3 shifts

Inspector Alma Moreno Lahm
 Primary Media RCRA
 Inspector Phone Ext. 7380
 Date 6/29/2000

1. What does the facility do? Print materials/documents

2. Provide a brief process description:

(Check all that apply): Painting Coating (Water-based ☒, Solvent-based ☐); Printing ☒, Reacting ☐; Formulating ☐; Distilling ☐;
 Parts Washers/Degreasing (Water-based ☐, Halogenated-based ☐, Non-halogenated-based ☐); Combustion (boiler, furnaces, oxidizers) ☐;
 Electroplating (Chrome ☐, Other ☐); Electro-less plating (Type ☐)

ENVIRONMENTAL JUSTICE (EJ - Note: Only forward to EJ if a concern is also identified in one of the regulatory areas below)

1. Is the facility located in a low income area (e.g., with many abandoned and dilapidated properties)? No ☒ (stop) Yes ☐Is the facility located less than 1000 feet from the nearest routinely occupied property (house, school, etc.)? No ☒ Yes ☐ → Forward to EJ

TOXIC SUBSTANCES CONTROL ACT (TSCA) EMERGENCY PLANNING & COMMUNITY RIGHT TO KNOW ACT (EPCRA)

1. Does the facility use more than 200 gallons or 1,500 pounds per month of the following (check all that apply): Acids ☐, Anhydrous Ammonia ☐,
 Chlorine ☐, Chlorinated Solvents ☐, Solvent-Based Paints ☒, or Solvents ☒? No ☐ (stop) Yes ☐ (Available on Envirofacts)Have Toxic Chemical Release Forms (Form R) been submitted under Section 313 of EPCRA? Yes ☐ No ☒ → Forward to TSCA2. Does the facility store more than 100 gallons or 1,000 pounds of the following (check all that apply): Acids ☐, Bases ☐, Bulk Chemicals ☒,
 Anhydrous Ammonia ☐, Chlorine ☐, Chlorinated Solvents ☐, Fuels ☐, Gases ☐, Solvent-Based Paints ☒, or Solvents ☒? No ☐ (stop) Yes ☐Have Hazardous Chemical Inventory Forms (Tier II) been submitted to local and state governments (Emergency Planning Committees or
 State Emergency Response Commission)? Yes ☐ No ☒ → Forward to EPCRA (Available on Envirofacts)Have Risk Management Plans been submitted to EPA under Section 112r of the CAA? Yes ☐ No ☒ → Forward to EPCRA3. Does the facility have any equipment that contains PCB's at concentrations >500 ppm? No ☒ (stop) Yes ☐Do you see any visibly leaking equipment (including wet or weeping equipment)? No ☐ Yes ☐ → Forward to TSCA (Get Photo)

CLEAN WATER ACT (CWA) - National Pollution Discharge Elimination System (NPDES), Industrial Pretreatment

1. Does the facility discharge any water to storm sewers, surface water, or the land? No ☒ (stop) Yes ☐Are all of the water discharges permitted? Yes ☐ No ☒ → Forward to CWA2. Does the facility discharge process wastewater to the city POTW (Publically Owned Treatment Works)? No ☒ (stop) Yes ☐Are the discharges permitted by: The state? ☐ (Stop here) The city? ☐ No ☒ → Forward to CWA;Does the city have a state or EPA approved pretreatment program? Yes ☐ No or Don't Know ☐ → Forward to CWA3. Do you see any wastewater discharges not identified by the facility? No ☐ (stop) Yes ☐ Location: _____

Appearance of discharge: _____ (Get Photo) → Forward to CWA

CLEAN WATER ACT (CWA) - Section 404 Wetlands

1. Does the facility have any wetland areas (e.g. streams, ponds, or temporarily wet areas)? No ☒ (stop) Yes ☐

Do you see any areas that have been filled, dredged, channelized, dammed, or had gravel removed from within the last 5 years?

No ☐ Yes ☐ → FWD to Wetlands When? _____ Location: _____ (Get Photo)

SAFE DRINKING WATER ACT (SDWA) - Underground Injection Control (UIC) & Public Water System (PWS)

1. Does the facility discharge any liquids to the subsurface (septic systems, disposal wells, cesspools, etc.)? No ☒ (stop) Yes ☐ → Forward to UICDo these liquid wastes consist of sanitary wastewater only? Yes ☐ No ☐2. Does the facility provide drinking water to 25 people or more from its own source (private well, pond, etc.)? No ☒ (stop) Yes ☐ → Forward to PWSDoes the facility test or monitor its drinking water in order to comply with state regulations? Yes ☐ No ☐

CLEAN AIR ACT (CAA)

1. Do you see any dense, non-steam, smoke or dust emissions leaving the facility property? No ☒ Yes ☐ → **Forward to CAA**

Source _____ (Get Photo)

2. Does the facility have any new air pollution emitting equipment that was constructed or installed in the past 5 years? No ☐ (stop) Yes ☒ *printing press*
Is specific equipment permitted? Yes ☒ No ☐ → **Forward to CAA** (Describe: _____)

3. Does the facility have any manufacturing process cooling units that contain >50 lbs of refrigerant? No ☒ (stop) Yes ☐ → **Forward to CFC**

Are these units: Self-serviced? ☐ Contract Serviced? ☐ Service Company: _____

4. Does the facility service motor vehicle air conditioning systems? No ☒ (stop) Yes ☐

Does the facility use more than one type of refrigerant? No ☐ Yes ☐

Types: _____

Does the facility have separate servicing and recovery equipment for each type of refrigerant? Yes ☐ No ☐ → **Forward to CFC**

5. Does the facility use any of these refrigerants: Duracool ☐? Envirosafe ☐? OZ-12 ☐? HC-12a ☐? No ☒ Yes ☐ → **Forward to CFC**

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)

1. Does the facility generate more than 30-gallons (220 lbs./100kg) of hazardous waste per month or at any one time? No ☒ (stop) Yes ☐

EPA Hazardous Waste Identification Number? # MD0985805464 Generator Size 500 None ☐ → **Forward to RCRA**

2. Does the facility treat ☐, burn ☐, landfill ☐, or have surface impoundments ☐, for on-site hazardous waste management? No ☒ (stop) Yes ☐

Is facility permitted for above described activity? Yes ☐ No ☐ → **Forward to RCRA**

3. Does the facility generate, store, or ship off-site large quantities (>10 drums, roll-offs, waste piles, etc.) of waste material that they claim to be non-hazardous (exclude clean office trash, cardboard, & packaging type wastes)? No ☒ (stop) Yes ☐

List Waste Type

See RCRA Report

What information can the facility show you that demonstrates the waste is actually non-hazardous?

Testing, industry or manf. info., MSDS, etc. ☐; None available ☐ → **Forward to RCRA**

Testing, industry or manf. info., MSDS, etc. ☐; None available ☐ → **Forward to RCRA**

Testing, industry or manf. info., MSDS, etc. ☐; None available ☐ → **Forward to RCRA**

Testing, industry or manf. info., MSDS, etc. ☐; None available ☐ → **Forward to RCRA**

Testing, industry or manf. info., MSDS, etc. ☐; None available ☐ → **Forward to RCRA**

4. Do you see any hazardous waste containers, drums, or tanks leaking? No ☒ Yes ☐ → **Forward to RCRA**

Describe: _____ (Get Photo)

5. Do you see any signs of spills or releases (e.g., dead or stressed vegetation, stains, discoloration)? No ☒ Yes ☐ → **Forward to RCRA**

Describe: Used oil only, in PEPP got already. Used oil from hormonal pump. (Get Photo)

6. Do you see any chemical or waste handling practices that concern you (access to children/public)? No ☒ Yes ☐ → **Forward to RCRA** *See RCRA report*

Describe: _____ (Get Photo)

UNDERGROUND STORAGE TANKS (UST part of RCRA) No USTs.

1. Does the facility have any past or present underground petroleum product or hazardous material tanks? No ☒ Yes ☐ → **Forward to UST**

2. Does the facility have any underground fuel tanks for emergency generators? No ☒ Yes ☐ → **Forward to UST**

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN (SPCC)

1. Does the facility have any aboveground oil tanks (petroleum, synthetic, animal, fish, vegetable), with an aggregate volume >1320 gallons?

No ☒ (stop) Yes ☐ Is there and SPCC Plan? Yes ☐ No ☐ → **Forward to SPCC**

Do you see a secondary containment system for the tanks? Yes ☐ No ☐ → **Forward to SPCC**

Do you see any leaking tanks where oil could reach waters of the State or U.S.? No ☐ Yes ☐ (Get Photo) → **Forward to SPCC**

*** PLEASE TAKE PHOTOS TO DOCUMENT POTENTIAL PROBLEMS**

03/17/2000 14:00

THE SESSION LAW FIRM

2600 GRAND BOULEVARD
SUITE 440

KANSAS CITY, MISSOURI 64108

TELEPHONE (816) 842-4949
TELEFAX (816) 842-1815

MARGARET L. PEMBERTON

TELECOPY COVER SHEET

TO: NAME: Jenna Wishmeier, Esq.
COMPANY: Office of Regional Counsel
U.S. Environmental Protection Agency
FAX NO.: 551-7064

FROM: NAME: Margaret L. Pemberton

NUMBER OF PAGES (Including cover page): 2

DATE: March 17, 2000

RE: 2100 Wyandotte Street, Kansas City, Missouri

MESSAGE: Attached hereto is a copy of test results obtained by Kingston Environmental Services ("Kingston") regarding liquid substances leaking through the ceiling of the 2100 Wyandotte Street facility. The leak was located directly beneath part of the Glee Graphics, Inc., d/b/a Rosse Lithographing Company operation, which occupies the building. If any additional information is received from Kingston, we will forward it to you.

ORIGINALS: Forwarded via - Express Mail

First Class U.S. Mail

Not Forwarded - Retained by Sender

X

Other:

IF YOU DO NOT RECEIVE ALL OF THE PAGES, OR IF YOU ARE EXPERIENCING PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL (816) 842-4949 IMMEDIATELY.

THE INFORMATION CONTAINED IN THIS FAX MESSAGE IS PRIVILEGED AND CONFIDENTIAL INFORMATION, INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. IF THE READER OF THIS FAX MESSAGE IS NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT YOU ARE HEREBY NOTIFIED THAT YOU ARE IN THE POSSESSION OF CONFIDENTIAL INFORMATION. PLEASE IMMEDIATELY NOTIFY THE SENDER BY TELEPHONE OF YOUR INADVERTENT RECEIPT AND RETURN THE ORIGINAL FAX MESSAGE TO THE SENDER AT THE TELEPHONE NUMBER ABOVE. THE ATTORNEY/CLIENT PRIVILEGE IS CLAIMED.

Memorandum

Page 1 of 1

Kingston Environmental Services, Inc.
 Environmental Scientists & Engineers
 1600 SW Market St, Lee's Summit, MO 64081
 Tel: (816) 524-8811 Fax: (816) 525-5037
 Email: info@kingstonenv.com
 Website: www.kingstonenv.com

To: Bill Session
 From: Charlie Troppito
 Re: Test results
 Date: August 5, 1998

Attached are copies of the test results of the milky aqueous liquid sample taken from around the pipe at the 2100 Wyandotte St. Building.

Of particular interest the sample contained:

Analyte	Concentration	Common Usage	Regulatory Data
MER	10,000 PPB/ 10 PPM	Industrial solvent	CERCLA listed hazardous substance, RQ = 5,000 lbs. RCRA Waste Number = U159
Acetone	6,600 PPB/ 6.6 PPM	Industrial solvent	CERCLA listed hazardous substance, RQ = 5,000 lbs. RCRA Waste Number = U002

In reviewing the results please note that:

- a. The VOC TIC scan noted no chlorinated/halogenated solvents but did detect unknown PAH's.
- b. The heavy metals-Barium & Lead were detected in PPB levels.
- c. Several forms of Trimethyl benzenes were detected at low levels.

The concrete core results for compressive strength are expected tomorrow.

Please contact me if you have any questions.

ATTACHMENT 2-3-2-9



15130 South Kessler, Olathe, Kansas 66062
Phone: (913) 829-0101 - Fax: (913) 829-1181
e-mail: amlab@tdir.net

Certificate of Analysis

July 10, 1998

Mr. Charles Troppito
Kingston Environmental
1600 SW Market
Lee's Summit, MO 64081
Phone: 524-8811
Fax: 525-150027

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Job Project Number: 070698.04

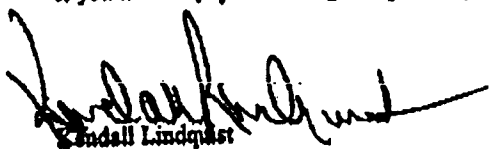
Dear Mr. Troppito:

Included are the analytical results for the soil samples received on July 06, 1998. All analyses were prepared and analyzed within method required holding times.

The semi-volatile detection limits are elevated due to the high level of total petroleum hydrocarbons.

The surrogate recoveries for the volatile analysis are below acceptable criteria. This is due to matrix effects of the oily sample. All data results are qualified with a "J" to indicate estimated values only.

If you have any questions regarding this report, feel free to contact me at (913) 829-0101.


Randall Lindquist
Laboratory Manager

Reviewed By: 

Page 1 of 6



15130 South Kooler, Olathe, Kansas 66062
Phone: (913) 829-0101 - Fax: (913) 829-1181
e-mail: amlab@bidi.com

Certificate of Analysis

Mr. Charles Troppito
Kington Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID: WY-1
Lab Sample ID: A1805

Date Collected: 07/02/98
Date Received: 07/02/98

TPH-Diesel Date Analyzed: 07/10/98 Analyst: RRH Method: OA2
Analyte Results Units Detection Limit
Total TPH-Diesel Range 19000 mg/kg 50
Terphenyls 19 (terphenyls) 19000 mg/kg

Analyte	Date Analyzed: 07/10/98	Results	Units	Method: 8270	Detection Limit
Phenol		ND	µg/kg		100000
2-Chlorophenol		ND	µg/kg		100000
1,3-Dichlorobenzene		ND	µg/kg		100000
1,4-Dichlorobenzene		ND	µg/kg		100000
1,2-Dichlorobenzene		ND	µg/kg		100000
2-Methylphenol		ND	µg/kg		100000
bis (2-chloroisopropyl) ether		ND	µg/kg		100000
4-Methylphenol		ND	µg/kg		100000
n-Nitroso-di-Propylamine		ND	µg/kg		100000
Hexachloroethane		ND	µg/kg		100000
Nitrobenzene		ND	µg/kg		100000
Isophorone		ND	µg/kg		100000
2-Nitrophenol		ND	µg/kg		100000
2,4-Dimethylphenol		ND	µg/kg		100000
bis (2-chloroethoxy) Methane		ND	µg/kg		100000
2,4-Dichlorophenol		ND	µg/kg		100000
1,2,4-Trichlorobenzene		ND	µg/kg		100000
Naphthalene		ND	µg/kg		100000
4-Chloroaniline		ND	µg/kg		100000
Hexachlorocyclopentadiene		ND	µg/kg		100000
2,4,6-Trichlorophenol		ND	µg/kg		100000
2,4,5-Trichlorophenol		ND	µg/kg		100000
2-Chloronaphthalene		ND	µg/kg		100000
2-Nitroaniline		ND	µg/kg		100000
Dimethylphthalate		ND	µg/kg		100000
Acenaphthylene		ND	µg/kg		100000
3-Nitroaniline		ND	µg/kg		100000
Acenaphthene		ND	µg/kg		100000
2,4-Dinitrophenol		ND	µg/kg		100000
4-Nitrophenol		ND	µg/kg		100000
Dibenzofuran		ND	µg/kg		100000
2,4-Dinitrotoluene		ND	µg/kg		100000
Diethylphthalate		ND	µg/kg		100000

Reviewed By:

Page 2 of 6



Kingston Environmental

15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829 0101 • Fax: (913) 829 1181
e-mail: amlab@dir.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID: W-4-1
Lab Sample ID: A1805 (cont.)

Analyte	Results	Units	Detection Limit
4-Chlorophenyl-phenylether	ND	µg/kg	100000
Fluorene	ND	µg/kg	100000
4-Nitroaniline	ND	µg/kg	100000
4,6-Dinitro-2-Methylphenol	ND	µg/kg	100000
n-Nitrosodiphenylamine	ND	µg/kg	100000
4-Bromophenyl-Phenylether	ND	µg/kg	100000
Hexachlorobenzene	ND	µg/kg	100000
Pentachlorophenol	ND	µg/kg	100000
Phenanthrene	ND	µg/kg	100000
Anthracene	ND	µg/kg	100000
Di-n-butyl Phthalate	ND	µg/kg	100000
4-Chloro-2-methyl phenol	ND	µg/kg	100000
Hexachlorobutadiene	ND	µg/kg	100000
2,6-Dinitrotoluene	ND	µg/kg	100000
2-Methylnaphthalene	ND	µg/kg	100000
Chrysene	ND	µg/kg	100000
Di-octyl Phthalate	ND	µg/kg	100000
Fluoranthene	ND	µg/kg	100000
Pyrene	ND	µg/kg	100000
Butylbenzylphthalate	ND	µg/kg	100000
Benzo (a) Anthracene	ND	µg/kg	100000
bis (2-ethylhexyl) Phthalate	ND	µg/kg	100000
Benzo (b) Fluoranthene	ND	µg/kg	100000
Benzo (k) Fluoranthene	ND	µg/kg	100000
Benzo (a) Pyrene	ND	µg/kg	100000
Indeno (1,2,3-cd) Pyrene	ND	µg/kg	100000
Benzo (a,h) Anthracene	ND	µg/kg	100000
Benzo (g,h,i) Perylene	ND	µg/kg	100000
2-Fluorophenol (surrogate)	Diluted Out	%	
Phenol-d6 (surrogate)	Diluted Out	%	
Nitrobenzene-d5 (surrogate)	Diluted Out	%	
2-Fluorobiphenyl (surrogate)	Diluted Out	%	
2,4,6-Trichlorophenol (surrogate)	Diluted Out	%	
Terphenyl-d14 (surrogate)	Diluted Out	%	

TIC's

RT	Analyte	Estimated Amount	Units
	Unknown Alkane	19000	mg/kg

Reviewed By:

Page 3 of 6



15130 South Keeler, Olathe, Kansas 66062
Phone: (913) 829-0101 • Fax: (913) 829-1181
e-mail: amllab@idirect.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandome Bldg / ORCN17
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID: WT-1
Lab Sample ID: A1805 (cont.)

Volatiles	Date Analyzed: 6/15/98	Analyst	Results	Units	Detection Limit
ANALYTE			Results	Units	Detection Limit
Dichlorodifluoromethane			ND	µg/kg	50
Chloromethane			ND	µg/kg	50
Vinyl Chloride			ND	µg/kg	50
Bromomethane			ND	µg/kg	50
Chloroethane			ND	µg/kg	50
Acetone			ND	µg/kg	50
1,1-Dichloroethene			ND	µg/kg	50
Iodomethane			ND	µg/kg	50
Carbon Disulfide			ND	µg/kg	50
Methylene Chloride			ND	µg/kg	50
Methyl Tert Butyl Ether (MTBE)			ND	µg/kg	50
trans-1,2-Dichloroethene			ND	µg/kg	50
1,1-Dichloroethane			ND	µg/kg	50
2-Butanone (MEK)			ND	µg/kg	50
cis-1,2-Dichloroethene			ND	µg/kg	50
2,2-Dichloropropane			ND	µg/kg	50
Bromochloromethane			ND	µg/kg	50
Chloroform			ND	µg/kg	50
1,1,1-Trichloroethane			ND	µg/kg	50
1,1-Dichloropropene			ND	µg/kg	50
Carbon Tetrachloride			ND	µg/kg	50
1,2-Dichloroethane			ND	µg/kg	50
Benzene			ND	µg/kg	50
Trichloroethene			ND	µg/kg	50
1,2-Dichloropropane			ND	µg/kg	50
Dibromomethane			ND	µg/kg	50
Bromodichloromethane			ND	µg/kg	50
2-Chloroethyl vinyl ether			ND	µg/kg	50
cis-1,3-Dichloropropene			ND	µg/kg	50
2-Methyl-4-pentanone (MIBK)			ND	µg/kg	50
Toluene			150 J	µg/kg	50
trans-1,3-Dichloropropene			ND	µg/kg	50
1,1,2-Trichloroethane			ND	µg/kg	50
1,3-Dichloropropane			ND	µg/kg	50
Tetrachloroethane			ND	µg/kg	50
2-Hexanone			ND	µg/kg	50
Dibromochloromethane			ND	µg/kg	50
1,2-Dibromomethane			ND	µg/kg	50
Chlorobenzene			ND	µg/kg	50
1,1,1,2-Tetrachloroethane			ND	µg/kg	50

Reviewed By:

Page 4 of 6



15130 South Kessler, Olathe, Kansas 66062
Phone: (913) 629-0101 - Fax: (913) 629-1181
E-Mail: amlab@jdr.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID: WY-1
Lab Sample ID: A180s (cont.)

Analyte	Results	Units	Detection Limit
Ethyl Benzene	ND	µg/kg	50
m/p Xylene	53 J	µg/kg	50
o Xylene	ND	µg/kg	50
Styrene	ND	µg/kg	50
Bromoforn	ND	µg/kg	50
Isopropyl benzene	ND	µg/kg	50
1,1,2,2-tetrachloroethane	ND	µg/kg	50
Bromobenzene	ND	µg/kg	50
1,2,3-Trichloropropane	ND	µg/kg	50
n-Propyl benzene	300 J	µg/kg	50
2-Chlorotoluene	ND	µg/kg	50
1,3,5-Trimethyl benzene	610 J	µg/kg	50
4-chlorotoluene	ND	µg/kg	50
tert Butyl benzene	ND	µg/kg	50
1,3,4-trimethyl benzene	3400 J	µg/kg	50
sec Butyl benzene	ND	µg/kg	50
1,3-Dichlorobenzene	ND	µg/kg	50
p-isopropyl toluene	ND	µg/kg	50
1,4-Dichlorobenzene	ND	µg/kg	50
n-Butyl benzene	ND	µg/kg	50
1,2-Dichlorobenzene	ND	µg/kg	50
1,2-Dibromo-3-chloropropane	ND	µg/kg	50
1,2,4-Trichlorobenzene	ND	µg/kg	50
Hexachlorobutadiene	ND	µg/kg	50
Naphthalene	180 J	µg/kg	50
1,2,3-Trichlorobenzene	ND	µg/kg	50
Dibromofluoromethane (surrogate)	83	%	
1,2-Dichloroethane-d4 (surrogate)	113	%	
Toluene-d8 (surrogate)	57	%	
4-Bromofluorobenzene (surrogate)	28	%	

TIC's

RT	Analyte	Estimated Amount	Units
9.23	Unknown Alkane	80	J ug/kg
10.25	Unknown Alkane	240	J ug/kg
18.07	Substituted Benzene	960	J ug/kg
18.73	Substituted Benzene	180	J ug/kg
19.74	Limonene	580	J ug/kg
20.07	Trimethyl Benzene	630	J ug/kg
20.97	Unknown Alkane	430	J ug/kg

Reviewed By:

Page 5 of 6



Asbestos Analysis Laboratory

15130 South Kessler, Olathe, Kansas 66062
Phone: (913) 629-0101 • Fax: (913) 629-1161
e mail: amllab@midr.net

Certificate of Analysis

Kingston Environmental

Client Project ID: 2100 Wyandotte Bldg. / 98C017
Chain of Custody #: 3384

Lab Project Number: 070698.04

Client Sample ID: WY-1
Lab Sample ID: A1805 (cont.)

RCRA8 Metals

Analyte	Results	Units	Detection Limit	Analyst	Date Analyzed	Method
Arsenic	ND	mg/kg	0.80	KEZ	07/08/98	6010
Barium	0.598	mg/kg	0.20	KEZ	07/08/98	6010
Cadmium	ND	mg/kg	0.20	KEZ	07/08/98	6010
Chromium	ND	mg/kg	1.0	KEZ	07/08/98	6010
Lead	2.93	mg/kg	1.0	KEZ	07/08/98	6010
Mercury	ND	mg/kg	0.02	KEZ	07/08/98	7420
Selenium	ND	mg/kg	1.0	KEZ	07/08/98	6010
Silver	ND	mg/kg	0.20	KEZ	07/08/98	6010

Analyte	Results	Units	Detection Limit	Analyst	Date Analyzed	Method
pH	6.610	su		KEZ	07/10/98	9045

Reviewed By: 

Page 6 of 6

JotFax #544; Page 2/2

AMT Laboratories, Inc.

130 B South Kiecker - Omaha, NE 68162
Phone (913) 829-0101 • Fax: (913) 829-1811

Client Contact Name:

Company Name: Kingson Environmental

Address: 1600 S.W. Ninkred

City, State, Zip Lees Summit, MO 64081

Prms #: 5248811

Fax #: 515-8127

170341 Name: ZILDEKYE, DORJI ELIZ.

Project Number 98C017

Project Due Date: 11/27/2016

Project Chimera

Stamper's signature: C. W. Steele

Antyssh/Niitroads to the Performance: (Contd. from last page)

पर्यावरण

4

1574

Chain of Custody Record

[illegible]

Charlie Troppito "Trápido"
(913) 722-0625 (Home)

7/3/2000
Red Subaru
12⁰⁰
Met 7/5/2000

East side

Northern most door

Take immediate left. 4 parking spaces there - parallel to bldg.
2 parking spaces over.

Pipe runs east + west

Leaking 10-15 feet West of the East wall.

Pipe to south of the office door ^{on east side} that comes to parking lot.

→ Take flashlight.

Coming from floor drain or wash up sink.

Dropped off the floor where had dripped off the pipe.

7/5/2000

Bldg. Owners ^{attly} called to say people were complaining - would park
cars in 1st & 2nd spot, would get drippage on paint &
the paint would discolor & peel.

Took photo of pipe that was leaking & sampled.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CONFIDENTIALITY NOTICE

Facility Name <u>Gloe Graphics Inc. DBA</u> <u>Rosse Lithographing Co.</u>	
Facility Address <u>2100 Wyandotte, 2nd floor, KC, MO 64108</u>	
Inspector (print) <u>Alma Moreno Lahm</u>	
U.S. EPA, Region VII, 901 N. 5th St., Kansas City, KS 66101	Date <u>6/30/2000</u>

The United States Environmental Protection Agency (EPA) is obligated, under the Freedom of Information Act, to release information collected during inspections to persons who submit requests for that information. The Freedom of Information Act does, however, have provisions that allow EPA to withhold certain confidential business information from public disclosure. To claim protection for information gathered during this inspection you must request that the information be held CONFIDENTIAL and substantiate your claim in writing by demonstrating that the information meets the requirements in 40 CFR 2, Subpart B. The following criteria in Subpart B must be met:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.
2. No statute specifically requires disclosure of the information.
3. Disclosure of the information would cause substantial harm to your company's competitive position.

Information that you claim confidential will be held as such pending a determination of applicability by EPA.

I have received this Notice and <u>DO NOT</u> want to make a claim of confidentiality at this time.	
Facility Representative Provided Notice (print)	Signature/Date

I have received this Notice and <u>DO</u> want to make a claim of confidentiality.	
Facility Representative Provided Notice (print)	Signature/Date
<u>Vank Rabinov</u>	<u>7.6.00</u>

Information for which confidential treatment is requested:

1. ANY AND ALL PHOTOGRAPHS TAKEN DURING CEI.

(Rev: 11/15/99)

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RECEIPT FOR DOCUMENTS AND SAMPLES**

Facility Name	Gloe Graphics Inc. DBA Rosse Lithographing Co.
Facility Address	2100 Wyandotte, 2nd floor; KC, mo 64108

Documents Collected? YES ☒ (list below) NO ☐

Samples Collected? YES ☐ (list below) NO ☒ Split Samples: YES ☐ NO ☒

Documents/Samples were: 1) Received no charge ☒ 2) Borrowed ☐ 3) Purchased ☐

Amount Paid: \$ _____ Method: Cash ☐ Voucher ☐ To Be Billed ☐

The documents and samples described below were collected in connection with the administration and enforcement of the applicable statute under which the information is obtained.

Receipt for the document(s) and/or sample(s) described below is hereby acknowledged:

- ① Material Safety Data Sheets - 16 total for (58 pages)
 #04955 Blanket Wash, Lacolene Super, Genesis Fountain Solution W,
 Dampening Solution 9010, Glycol Ether EP, CK-303, TK Mark V
 New Process Series, Film Kleen 7065, Emerald Premium DAQ 2879
 Plate Cleaner NW Plate Cleaner, Color Wash Step-1, Petrol Gum
 On The Fly, Pure Gum Arabic 14 BE, Kodak Ultraterc Fixer and Replenish
 Kodak Ultraterc Developer and Replenisher
- ② Manifests and Invoices 12/3/96, 4/18/97, 12/3/97, 9/28/99, 10/27/99,
 11/2/99, 12/8/99 + 5/9/2000 - 10 manifests for (17 pages) (2)
- ③ Vendor History Reports to determine ~~the~~^{the} shipments from 12/4/97 to 9/98
- ④ 5/1/98 Hazardous Waste Summary Report (4 pages)
- ⑤ 10/15/99 Price Proposal by Millennium Environmental Co. (1 page)
- ⑥ 10/25/99 Authorization Letters to Accept Waste ~~#one to five - 10/25/99~~ ^{#one to five - 10/25/99} ~~and 10/25/99 profiles for waste~~ (10 pages)
- ⑦ 11/16/99 LDR Notices for waste in 10/22/99 Profiles (6 pages)
- ⑧ 12/16/99 Authorization Letters to Accept Waste ~~Petroleum Distillates~~ ^{Petroleum Distillates} 12/18/99 Profile (6)
- ⑨ 1/6/2000 Authorization Letters to Accept Waste ~~#6 modified + #8 and 12/18/99 Profiles~~ ^{#6 modified + #8 and 12/18/99 Profiles} (4)

Facility Representative (print)	Signature/Date
HANK ROSEBROUGH	7.6.00
Inspector (print)	Signature/Date
Alma Moreno Lahm	7/6/2000
U.S.EPA, Region VII, ENSV Division, 901 N. 5th St. ^{901 N. 5th St.} , Kansas City, KS 66115	

(rev:1/20/93)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RECEIPT FOR DOCUMENTS AND SAMPLES

Facility Name	Gloe Graphics Inc. DBA Rosse Lithographing Co.
Facility Address	2100 Wyandotte, 2nd floor, KC, Mo 64108

Documents Collected? YES ☒ (list below) NO ☐

Samples Collected? YES ☐ (list below) NO ☒ Split Samples: YES ☐ NO ☒

Documents/Samples were: 1) Received no charge ☒ 2) Borrowed ☐ 3) Purchased ☐

Amount Paid: \$ Method: Cash ☐ Voucher ☐ To Be Billed ☐

The documents and samples described below were collected in connection with the administration and enforcement of the applicable statute under which the information is obtained.

Receipt for the document(s) and/or sample(s) described below is hereby acknowledged:

- ⑩ Towel & Uniform Service Shop towel Sale/Rental Agreement (1pg)
- ⑪ Invoice for Emergency Spill Response Services 6/9/92 (6pgs)
- ⑫ Emissions Inventory Questionnaire (EQ) done 3/3/00 for 1999 (10pgs)
- ⑬ Facility ^{office} Production floor + storage map (2 pages)

Facility Representative (print)	Signature/Date
HANK ROSEBROUGH	Hank Rosebrough 7.6.00
Inspector (print)	Signature/Date
Alma Moreno Lahm	Alma Moreno Zehn 7/6/2000
901 N. 5th St. U.S. EPA, Region VII, ENSV Division, 2500 Sunset Road, Kansas City, KS 66116	

(rev:1/20/93)

Notice of Violation Pursuant to Requirements
of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: Gloe Graphics Inc. DBA Rosse Lithographing Inc.
Address: 2100 Wyandotte, 2nd floor
Kansas City, Mo 64108
EPA ID Number: MO0985805464 Date: 7/6/2000

This notice is provided to call your attention to the following areas of noncompliance with state and federal regulations. This notice does not constitute a compliance order (Administrative Civil Complaint) pursuant to Section 3008 of RCRA and may not be a complete listing of all violations resulting from the the inspection.

Citation

Description of Violation

- | | |
|---|--|
| ① 10 CSR 25-5.262 (1) incorporating 40 CFR 262.11 | ① Failure to make hazardous waste ^(h.w.) determination on fluorescent light bulb disposing in trash. |
| ② 10 CSR 25-5.262 (1) incorporating 40 CFR 262.11 | ② Inadequate h.w. determination on etching solution (profile C3066-04) and degreasing solution (C3066-02). |
| ③ 10 CSR 25-5.262 (1) incorporating 40 CFR 262.34(e) | ③ Storage of Dool Blanket Wash down 7 days |
| ④ 10 CSR 25-5.262 (2) (C) 1. | ④ One drum of Dool Blanket Wash in storage not labeled mark per DOT during active on-site storage period. |
| ⑤ 10 CSR 25-5.262 (1) incorporating 40 CFR 262.34(d) (4) referencing 40 CFR 262.34(a) (2) | ⑤ One drum of Dool Blanket Wash in storage not marked marked with date of accumulation |
| ⑥ 10 CSR 25-5.262 (1) incorporating 40 CFR 262.34(d) (4) referencing 40 CFR 262.34(a) (3) | ⑥ One drum of Dool Blanket Wash in storage not clearly marked "Hazardous Waste". |

You are requested to submit a written response within 14 calendar days of receipt of this notice. Your response should include a description of all corrective actions taken and/or a schedule for completing the necessary corrective actions. The response should be submitted to:

U. S. Environmental Protection Agency, Region VII
901 North 5th St.
Kansas City, KS 64101
Mailcode - ENSV/ARCM
ATTN: Alma Moreno Lahm

If you have any questions about this Notice or wish to discuss your response, you may call me at (913) 551-7380, or Elizabeth Kosterer (Compliance Officer) at (913) 551-7673.

This Notice prepared by Alma Moreno Lahm Date: 7/6/2000

The undersigned person acknowledges that he/she has received a copy of this Notice and has read same.

Printed Name: HANK ROSEBROUGH Date: 7.6.2000
Signature: Hank Rosebrough
Title: Plant Manager

Notice of Violation Pursuant to Requirements
of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: Gloe Graphics Inc. DBA Rosse Lithographing Inc.
Address: 2100 Wyandotte, 2nd floor
Kansas City, MO 64108
EPA ID Number: MOD985805464 Date: 7/6/2000

This notice is provided to call your attention to the following areas of noncompliance with state and federal regulations. This notice does not constitute a compliance order (Administrative Civil Complaint) pursuant to Section 3008 of RCRA and may not be a complete listing of all violations resulting from the inspection.

Citation

Description of Violation

- | | |
|--|--|
| ⑦ 10 CSR 25-5.262 (1) incorporating 40 CFR 262.34(c) (1)(i) referencing | ⑦ Satellite 55-gallon drum of Dool Blanket Wash not closed 40 CFR 265.173(a) |
| ⑧ 10 CSR 25-5.262 (1) incorporating 40 CFR 262.20(a) as amended by 10 CSR 25-5.262 (2)(B) 1. | ⑧ Wrong EPA ID # listed on manifest #00004, 00005, 00006 |
| ⑨ 10 CSR 25-5.262 (2)(B) 2, A. | ⑨ Manifest document ID + consecutive shipment # not match, used 00002 + |
| ⑩ 10 CSR 25-5.262 (2)(B) 1 & 2 | ⑩ DOT shipping name does not match profile # on 10/27/99 manifest |
| ⑪ 10 CSR 25-5.262 (2)(B) 1 & 2 | ⑪ Specific gravity not listed on manifest # 00002, 10/27/99 |
| ⑫ 10 CSR 25-7.268 (1) incorporating 40 CFR 268.7(a) | ⑫ Land Ban notification/certification not available for #00002 |
| ⑬ 10 CSR 25-7.268 (1) incorporating 40 CFR 268.7(b)(4) + (5) | ⑬ Dool Blanket Wash (Profile C3066-07) + regulated was shipped 10/27/99 # 00002 manifest + 11/2/99 # 00002 did not have LDR completed till 11/16/99 after shipper did not have LDR completed till 11/16/99 after shipper |
| | ⑬ Not listing correct EPA hazardous waste # for etching waste + disposing/solution of |
- You are requested to submit a written response within 14 calendar days of receipt of this notice. Your response should include a description of all corrective actions taken and/or a schedule for completing the necessary corrective actions. The response should be submitted to:

U. S. Environmental Protection Agency, Region VII
901 North 5th St.
Kansas City, KS 64101
Mailcode: ENJV/ARCM
ATTN: Alma Moreno Lahn

If you have any questions about this Notice or wish to discuss your response, you may call me at (913) 551-7380, or Elizabeth Koesteren (Compliance Officer) at (913) 551-7673.

This Notice prepared by Alma Moreno Lahn Date: 7/6/2000

The undersigned person acknowledges that he/she has received a copy of this Notice and has read same.

Printed Name: Hank ROSEBROUGH Date: 7.6.00
Signature: Hank Rosebrough
Title: PLANT MANAGER

Notice of Violation Pursuant to Requirements
of the Resource Conservation and Recovery Act (RCRA)

TO: Facility Name: Gloe Graphics DBA Rosse Lithographing Co.
Address: See other pages
EPA ID Number: MOD 985805464 Date: 7/16/2000

This notice is provided to call your attention to the following areas of noncompliance with state and federal regulations. This notice does not constitute a compliance order (Administrative Civil Complaint) pursuant to Section 3008 of RCRA and may not be a complete listing of all violations resulting from the the inspection.

Citation	Description of Violation
(14) 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(d)	(14) Failure to clean up used oil on 2nd floor. boards / 1st floor ceiling boards from routine / normal operation of equipment. Used oil is not a hazardous waste, per no action level, clean up aesthetically.
(15) 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32 as amended by 10 CSR 25-5.262(2)(c) 2. G.	(15) No spill control, decontamination + safety equipment available.
(16) 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii)	(16) Location of fire extinguisher and spill control equipment posted near phone. (Was being updated so not on wall.)
(17) 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(1)	(17) 1 drum of used oil labeled "waste oil" not used on

You are requested to submit a written response within 14 calendar days of receipt of this notice. Your response should include a description of all corrective actions taken and/or a schedule for completing the necessary corrective actions. The response should be submitted to:

U. S. Environmental Protection Agency, Region VII

See other pages
ATTN: _____

If you have any questions about this Notice or wish to discuss your response, you may call me at See other pages or pages (Compliance Officer) at

This Notice prepared by Alma Moreno Zahn Date: 7/16/2000

The undersigned person acknowledges that he/she has received a copy of this Notice and has read same.

Printed Name: Hank ROSEBROUGH Date: 7/16/2000
Signature: Hank Rosebrough
Title: Plant Manager

Attachment B pg 1/1

The news this week

LOCAL★BUSINESS

THE KANSAS CITY STAR.

D 4

Razing of contaminated building OK'd

Freight House tenants pleased by EPA action

By MARK P. COUCH
The Kansas City Star

A polluted building in the heart of the Freight House district would be torn down piece-by-piece under a plan approved last week by the U.S. Environmental Protection Agency.

The "surgical" demolition of the building at 2100 Wyandotte St. has a high cost — \$16.4 million.

But it also has a big payoff — removing a hazardous threat that could have delayed new development in one of the city's emerging office districts.

"It's been an enormous white elephant in the neighborhood," said Tom Levitt, who owns property next to the building. "This gives us an opportunity to provide more parking for the whole neighborhood."

The building is contaminated with polychlorinated biphenyl, or PCB, a toxic substance that has been found to cause cancer in rats.

The EPA report says PCBs have soaked into the concrete floors, walls, basement and stairwells of the building. PCBs have also been detected in the soil under the building.

In 1982, PCB Treatment Inc. began operating at the site. The company had a three-year permit to chop open electrical capacitors to remove fluids and internal parts.

PCBs were used as coolants and lubricants in capacitors, transformers and other electrical equipment.

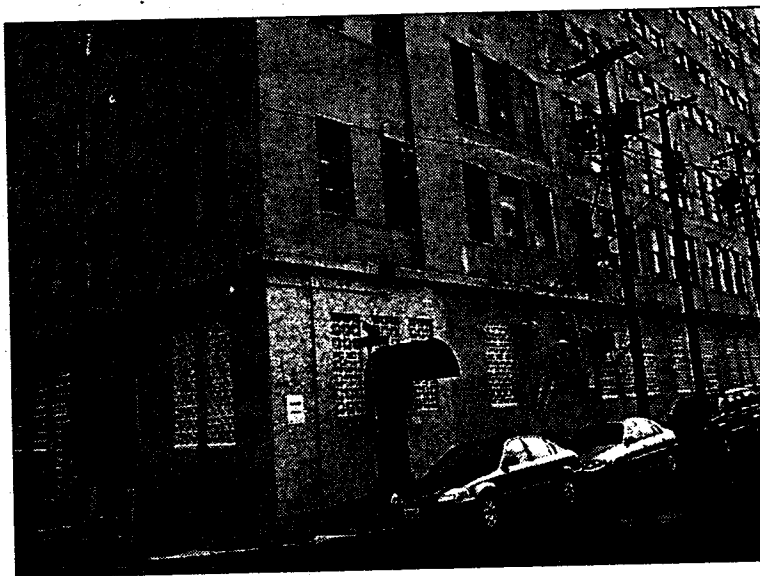


Photo by DELORES JOHNSON/The Kansas City Star

The building at 2100 Wyandotte St. is contaminated with polychlorinated biphenyl, or PCB, a toxic substance that has been found to cause cancer in rats, and will have to be "surgically" demolished.

The manufacture of PCBs stopped in the United States in 1977 based on scientific evidence of harmful effects.

Cleaning up the site will not be easy. To keep the PCBs from spreading, the building will be torn down slowly to control dust resulting from the 17,900 tons of debris expected to be generated.

"Every bit of the concrete will have to be cut out and misted," said Levitt, who has participated in discussions with the EPA.

The property will be demolished from the roof down, dismantled piece-by-piece and shipped to landfills licensed to accept contaminated waste.

The cost of tearing down the building and excavating 150 tons of contaminated soil is expected to be

paid by "potentially responsible parties" — the companies and government agencies that contributed to the pollution.

The potentially responsible parties are not specifically identified in the EPA's action plan. The plan says customers of PCB Inc. included the "federal government, rural electric cooperatives, utility companies, cities, states, and large and small businesses."

The building is in the middle of a tax-increment financing district, but Kansas City economic development officials do not expect to provide substantial financing for the cleanup.

"We don't have the TIF dollars to offset that much of the cost," said Patrick Sterrett, a planner with the Economic Development Corp.

The TIF dollars — future tax revenues generated by projects within the district — are earmarked for other public improvements, such as the construction of parking garages.

Now that the demolition of 2100 Wyandotte St. has been approved the EPA's next step is to set a schedule.

Brian Gloe, co-chief executive officer of Rosse Lithographic Co., tenant in the building since 1972, said EPA officials are hoping to begin demolition by August 2001.

Gloe's company and Swift Chemical are tenants in the building. Gloe said some floors of the building had been closed so that people were not exposed to the PCBs. And there are no airborne PCBs in the building.

"The building has been tested much by the EPA," Gloe said. "It's been tested and tested and retested again. They have assured us there are no airborne PCBs, and there are none in the space we occupy."

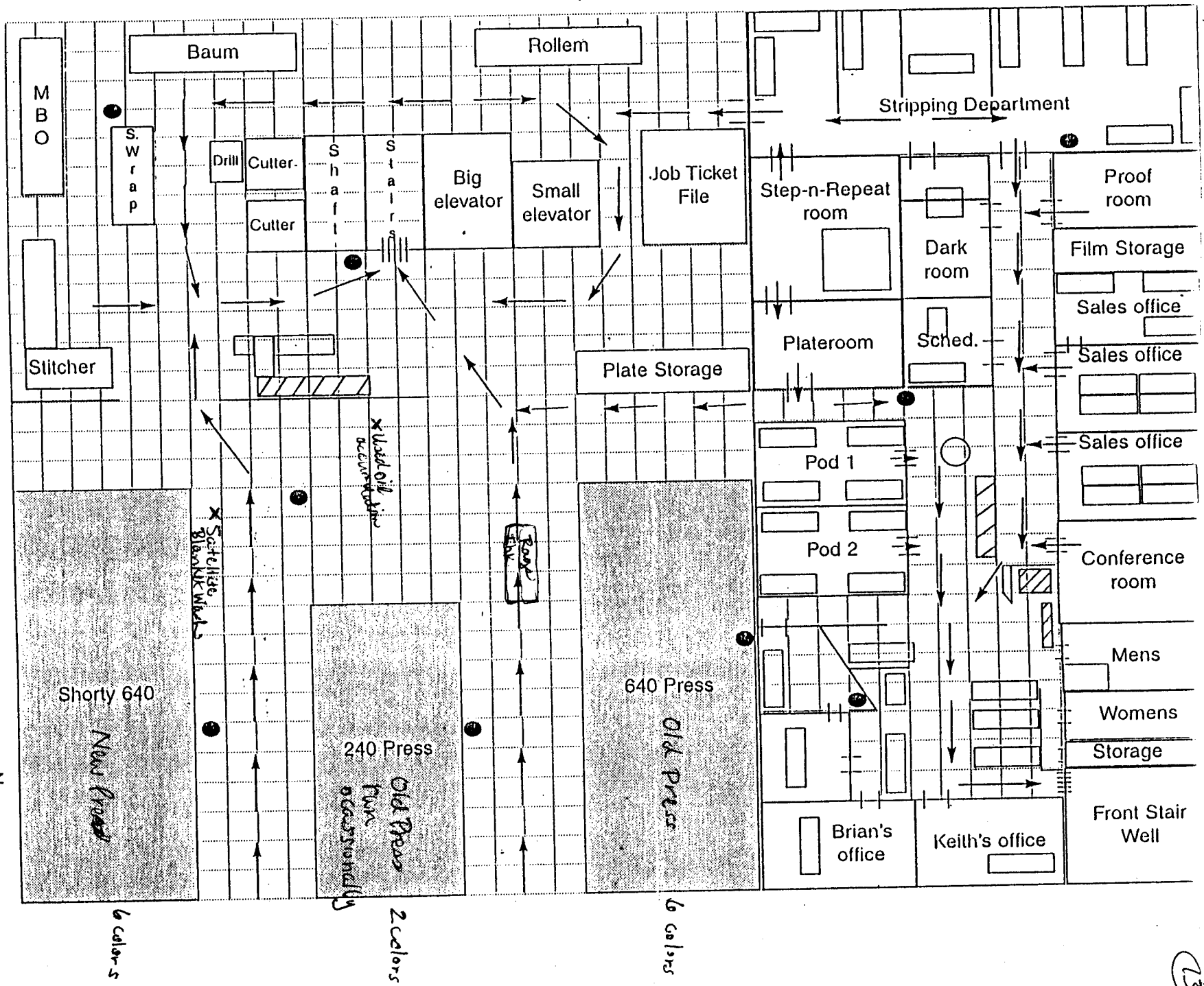
Gloe said the owners of the building lived in Texas and referred questions for them to Kansas City lawyer William Session, who could not be reached for comment.

The action plan provides \$1 million to relocate the tenants from the building.

Other landowners in the Freight House district praised the decision.

"This is one of the few hurdles that need to be stepped over to continue the momentum of making the Freight House district an amazing place to work and play and live," said landowner Michael Rainen.

To reach Mark P. Couch, development reporter, call (816) 234-4288 or send e-mail to mcouch@kcstar.com.



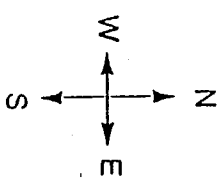
● - Fire extinguish-

| | - Door Way

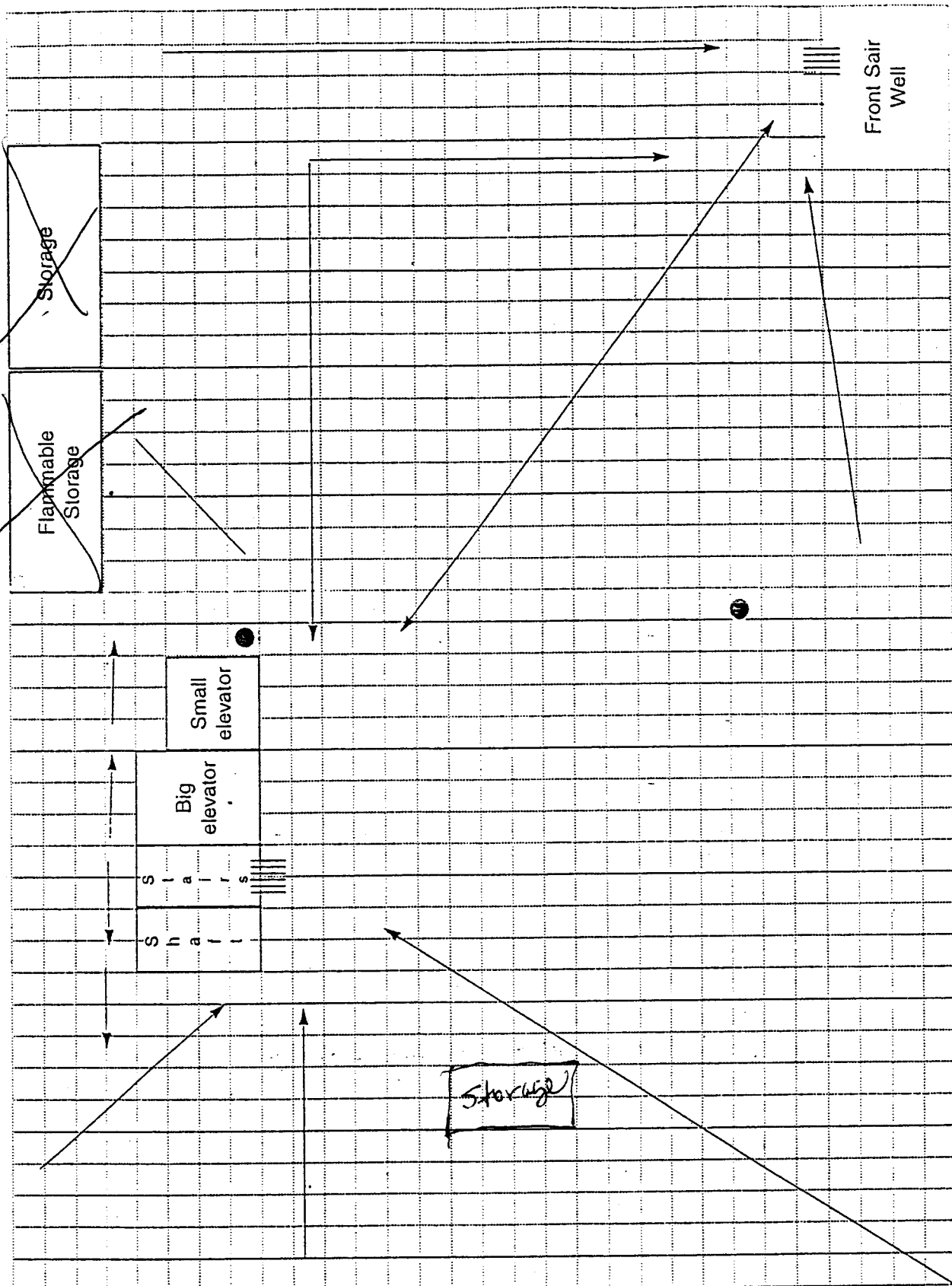
|||| - Exit

Fire escape route for all departments.

Please follow the arrows when walking calmly towards the exit.



13

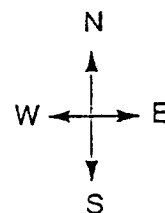


● — Fire extinguish-

||||- Exit

Fire escape route for all.

Please follow the arrows when walking calmly towards the exit.



rv. 7-24-98

Activity #: _____

Page _____ of _____

SITE ENTRY AND INTERVIEW WORKSHEET

1. Initial entry procedures:

☒ Used main entrance

☐ Entered during normal operating hours

2. Facility Representative(s):

Brian Gloe

Title: Co-CEO

Keith Gloe - Other CEO

Hank Rosebrough

Title: Plant Manager

Title: _____

3. Does the facility representative(s) have intimate knowledge of all aspects of the waste generation and management practices? ☒ YES ☐ NO

(How was this verified?)

Brian - Intimate knowledge of all of waste + on others - not all.
Have - Intimate knowledge of all.

4. How long has facility representative worked in their position?

Brian - 1993
12 years business

5. Were unreasonable or excessive delays encountered (>15 minutes):

☐ YES

☒ NO

6. Introduction:

☒ Presented credentials

☒ Verified presence at correct facility (checked address/I.D. #)

☒ Explained authority to conduct inspection (Section 3007 of RCRA)

☒ Explained the purpose, scope, and order of the inspection

☒ Explained documentation process through the use of worksheets, checklists, photo's, notes, statements, etc.

☒ Explained EPA's need to collect and the facilities responsibility to provide accurate information and provided copies of Section 1001 and 1002 U.S.C. to facility

☒ Explained facility's right to claim CBI and provided pages 1 and 2 of CBI form for signatures

☒ Identified personal safety considerations: Can wear protection, but not required

☒ Explained that findings and observations are based on your current knowledge of RCRA and that the final findings may differ

7. Was full access granted? ☒ YES By who? (name):

☐ NO Obtain name of person denying access, time of denial, reason for denial, note limitations placed on access:

Call if have any questions, especially B/L print in final report, so I have complete understanding.

DOCUMENTATION: HOW are the facts known? WHO said what? WHEN did it happen? and WHAT PROOF WAS OBTAINED?

Activity #: _____

Page ____ of ____

FACILITY BACKGROUND WORKSHEET

1. Site history:

Founded in 1961 Date facility began operating: 1972 @ this location Number of employees: 602
 Some prior unknown location @ EMC Gee
 Number of shifts/hours worked: 3 shifts 6-2pm Number of days worked per week: 5+
 Office hours 8-5pm Weekend work as needed
 1988 GLOBE GRAPHICS INC. Size (sq. ft., how divided): 50,000 ft² occupied
 1988-1992 Consolidated bus of GLOBE + Rose Only this location
 1992 - merged into 1 entity; no sale, just paperwork.
 Property owner and facility operator the same? ☐ YES ☒ NO

2. Major products or services provided: Printed materials

3. Major raw materials used: Paper + ink.

4. Major manufacturing or processing operations which generate waste streams:
 (provide brief description)

Operation

Waste Stream(s)

5. Complete a Generator Waste Stream Worksheet and/or Off-Site Waste Stream Worksheet for the waste streams noted above and then finish this form.

Activity #: _____

Page _____ of _____

6. Verified/compared above information with facility Notification Form: ☒ YES ☐ NO

7. GENERATOR STATUS: ☐ CE (0-100kg/mo) ☒ SQG (100-1000kg/mo) ☐ LQG (>1000kg/mo)
(based on records review)

Is facility's status solidly within above category? ☒ YES ☐ NO
(If not carefully verify status and document)

8. TSD STATUS: ☐ Treatment ☐ Storage ☐ Disposal

Note: Types of units, number of units, capacities, processes, etc.

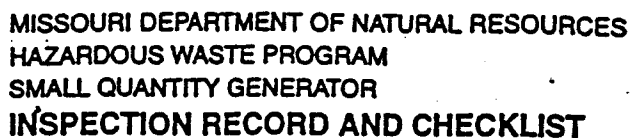
N/A

9. Resolved questions from Pre-Inspection Worksheet? ☒ YES ☐ NO ☐ No Questions

10. Resolved compliance officers questions from Pre-Inspection Worksheet? ☒ YES ☐ No Questions

11. Requested site map or diagram to identify all observations? ☒ YES ☐ None available

DOCUMENTATION: HOW are the facts known? WHO said what? WHEN did it happen?
HOW long did it happen? and WHAT PROOF WAS OBTAINED?

**SOG-INSP**

ONLY FOR FACILITIES THAT GENERATE/ACCUMULATE < 1000 Kg (2,200 lbs. or approximately 5 drums)

NAME Gloe. Graphics Inc. DBA Rosse Lithography, Inc.		DATE 2000 6/29, 30, 7/3, 7/6		EPA ID NUMBER MO0985805464	
ADDRESS 2100 Wyandotte, 2nd floor		FIR NO		MO ID NUMBER	
CITY Kansas City		COUNTY Jackson		TELEPHONE NUMBER (816) 842-4669	
FACILITY REPRESENTATIVE(S), TITLE(S) Brian Gloe, Hank					
DATE(S) OF LAST INSPECTION(S) Not inspected before.					
LATITUDE DEG ____ MIN ____ SEC ____			LONGITUDE DEG ____ MIN ____ SEC ____		

DESCRIPTION OF THE FACILITY'S OPERATIONS AND PLANT

WASTE STREAMS

DESCRIBE EACH WASTE STREAM GENERATED INCLUDING THE PRODUCTION PROCESS	GENERATION RATE	EPA WASTE CODE(S)	DISPOSITION
1. See table	See table		→
2.			
3.			
4.			
5.			

ATTACHMENT 70 Page 4 of 12

A. GENERAL

1. <input checked="" type="checkbox"/> Registered as a hazardous waste generator - Section 260.380.1 (1) RSMo and 10 CSR 25-5.262 (2)(A).	1	GGR
2. <input type="checkbox"/> Facility determines if waste is hazardous - 10 CSR 25-5.262(1) incorporating 40 CFR 262.11.	1	GGR
3. <input checked="" type="checkbox"/> Utilizes a licensed hazardous waste transporter - Section 260.380.1(5) RSMo.	1	GGR
4. <input checked="" type="checkbox"/> Utilizes authorized HW TSD or RR facility - Section 260.380.1(7) RSMo.	1	GGR
5. <input checked="" type="checkbox"/> Facility does not operate as a TSD - Section 260.390(1) RSMo.	1	GGR

COMMENTS

Dependent on Contractor and Printing Industry Association. Failed to make h.w. determination on light bulbs, which throw in that fluorescent. Inadequate h.w. determination on old etching solution (Gessels) + Dampening solution. Doll too.

PART 1: WALK-THROUGH INSPECTION

B. PRETRANSPORT, CONTAINERIZATION & STORAGE

1. <input checked="" type="checkbox"/> Storage does not exceed 180 days 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d) or 270 days if transported > 200 miles 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(e)	1	GSQ
2. <input checked="" type="checkbox"/> Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.171.	1	GPT
3. <input checked="" type="checkbox"/> Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.172.	1	GPT
4. <input checked="" type="checkbox"/> Containers closed in storage - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.173(a).	1	GPT
5. <input checked="" type="checkbox"/> Containers storing incompatible waste separated or protected from each other by a dike, berm or wall - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(2) referencing 40 CFR 265.177(c).	1	GPT
6. <input checked="" type="checkbox"/> Containers of ignitable or reactive waste stored > 50 ft. from property line (or meet requirements) - 10 CSR 25-5.262(2)(C)6 referencing 40 CFR 265.176 as amended by 10 CSR 25-7.265(2)(I) 7 and 8.	2	GOR
7. <input type="checkbox"/> Waste packaged/labeled/marked per DOT during entire on-site storage period - 10 CSR 25-5.262(2)(C)1.	2	GOR
8. <input type="checkbox"/> Date of accumulation marked on containers - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(2).	2	GPT
9. <input checked="" type="checkbox"/> Containers protected from contact with accumulated liquids - 10 CSR 25-5.262(2)(C)2.D.(II).	2	GOR
10. <input type="checkbox"/> Containers clearly marked "Hazardous Waste" - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(3).	2	GPT
11. <input checked="" type="checkbox"/> Facility inspected and maintained (weekly) - 10 CSR 25-5.262(2)(C)2.C.(II) referencing 40 CFR 265.174.	2	GPT
12. <input checked="" type="checkbox"/> Daily inspection of areas subject to spills, i.e., waste handling areas - 10 CSR 25-5.262(2)(C)2.C.(II) referencing 40 CFR 265.195.	2	GOR
13. <input checked="" type="checkbox"/> Adequate aisle space is available - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.35.	2	GPT
14. <input checked="" type="checkbox"/> Placards available for transporter - 10 CSR 25-5.262(1) incorporating 40 CFR 262.33.	2	GPT
15. <input checked="" type="checkbox"/> "No Smoking" signs conspicuously placed by ignitable or reactive wastes - 10 CSR 25-5.262(2)(C)2.F.(II).	2	GOR

COMMENTS

Based on shipment manifests + generator rate, accumulated Blanket wash which is Dool h.w. Acc: even 20 days, no shipments from 12/1/97 to 9/28/99. And actually, all '96 + '97 shipments were for parts only. Facility became an LQG when accumulated > 5 drums old waste gone now; SQG now. No labeling until picked up by transporter. Not in storage. Did have on. Not labeled. Hank says does daily, except weekends if not open working. Done daily if here. Bring own. No smoking facility; signs not in place.

C. SATELLITE ACCUMULATION

1. <input type="checkbox"/> Containers kept closed - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.173(a).	1	GPT
2. <input checked="" type="checkbox"/> Containers in good condition - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.171.	1	GPT
3. <input checked="" type="checkbox"/> Waste compatible with container - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(i) referencing 40 CFR 265.172.	1	GPT
4. <input checked="" type="checkbox"/> Quantities accumulated not exceeding 55 gal. (1 quart of acutely-hazardous wastes) - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1).	1	GPT
5. <input checked="" type="checkbox"/> Satellite containers go to storage within 3 days of filling - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(2).	1	GPT
6. <input checked="" type="checkbox"/> Container marked identifying contents & beginning date - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(c)(1)(ii) as amended by 10 CSR 25-5.262(2)(C)3.	2	GOR

COMMENTS

Container of Blanket wash (Dool) not closed. Signs not double bag & system operation. Not sure cuz did not see. Blanket wash (Dool)

7. <input checked="" type="checkbox"/> Stored in satellite areas less than 1 year - 10 CSR 25-5.262(2)(C)3.	2	GOR	COMMENTS
D. PREPAREDNESS AND PREVENTION AND EMERGENCY PROCEDURES			
1. <input checked="" type="checkbox"/> Facility operated and maintained to minimize the possibility of an emergency - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.31. <i>Emergency coordinator</i>	1	GPT	COMMENTS
2. <input type="checkbox"/> Adequate and proper spill control, decontamination and safety equipment available (fire blankets, respirators, SCBA, absorbents, etc.) and properly tested and maintained - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32 as amended by 10 CSR 25-5.262(2)(C)2.G.	2	GPT	None available
3. <input checked="" type="checkbox"/> Adequate water supply and fire control equipment - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32(c) and (d).	2	GPT	
4. <input checked="" type="checkbox"/> Communication and emergency equipment tested and maintained - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.33.	2	GPT	COMMENTS Phones by machines. Used all the time. Home 911 access. Also have automatic. down. Marked on map, but map not posted being updated; sand markings; yearly has not training + MSDS train protection, chemicals job
5. <input checked="" type="checkbox"/> Emergency coordinator's name and phone number posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(i).	2	GSQ	
6. <input checked="" type="checkbox"/> Telephone number of fire department posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(ii).	2	GSQ	
7. <input checked="" type="checkbox"/> Location of fire extinguisher and spill control equipment posted near phone - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(iii).	2	GSQ	
8. <input checked="" type="checkbox"/> Employees familiar with waste handling and emergency procedures - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(iii).	2	GSQ	
9. <input checked="" type="checkbox"/> Device in the hazardous waste operation area capable of summoning emergency assistance - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.34(a).	2	GPT	
10. <input checked="" type="checkbox"/> Telephone or two-way radio on-site and capable of summoning local fire or police dept. - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.32(b).	2	GPT	

E. SQGTANKS				
TANK DESIGNATION	CONTENTS	CAPACITY	CONTAINMENT	AGE
1. N/A			N/A	
2.				
3.				
1. <input type="checkbox"/> Uncovered tanks have 2 ft. freeboard or containment system - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(b)(3).	1	GPT	COMMENTS	
2. <input type="checkbox"/> Continuously fed tanks equipped with a feed cut-off system or a proper by-pass system - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(b)(4).	1	GPT		
3. <input type="checkbox"/> Waste and/or treatment method is compatible with tank - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(b)(2).	1	GPT		
4. <input type="checkbox"/> Incompatible wastes not placed in same tank - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(f)(1).	1	GPT		
5. <input type="checkbox"/> Ignitable or reactive wastes rendered safe/protected from sources of ignition or reaction - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(e)(1).	1	GPT		
6. <input type="checkbox"/> Ignitable or reactive wastes in covered tanks treated/stored in accordance with NFPA's buffer zone requirements - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(e)(2).	1	GPT		
7. <input type="checkbox"/> Volatiles with vapor pressure > 78 mm Hg @ 25° C not placed in open tanks - 10 CSR 25-5.262(2)(C)2.F.(i).	1	GOR		
8. <input type="checkbox"/> Wastes and residues removed from tank and equipment, and handled properly upon closure - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(d).	1	GPT		
9. <input type="checkbox"/> Tanks are clearly labeled or marked "Hazardous Waste" - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 262.34(a)(3).	2	GPT		

10. <input checked="" type="checkbox"/> Inspection of waste feed cut off, bypass system, monitoring data and freeboard each operating day - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(c).	2	GPT	N/A	COMMENTS
11. <input checked="" type="checkbox"/> Weekly inspection of confinement structure, construction materials and general area for leaks, corrosion or discharges - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(3) referencing 40 CFR 265.201(c)5.	2	GPT		

PART 2: RECORDS INSPECTION

F. MANIFESTS

1. <input checked="" type="checkbox"/> Facility uses manifest system or wastes reclaimed under contractual agreement - 260.380.1(6) RSMo and 10 CSR 25-5.262(2)(B) or 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(e)1.	1	GMR	COMMENTS	
2. <input type="checkbox"/> Generator maintains a copy of the reclamation agreement on-site for at least 3 years after expiration of agreement - 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(e)(2).	2	GMR		
3. <input checked="" type="checkbox"/> Records maintained for a 3 year period - 10 CSR 25-5.262(1) incorporating 40 CFR 262.40(a).	2	GRR	Check on 5-year reclamation	
4. <input type="checkbox"/> Generator's MO & EPA I.D. Numbers - 10 CSR 25-5.262(1) incorporating 40 CFR 262.20(a) as amended by 10 CSR 25-5.262(2)(B)1.	2	GOR		
5. <input type="checkbox"/> Manifest document ID and consecutive shipment numbers - 10 CSR 25-5.262(2)(B)2.A.	2	GOR	Wrong EPA ID # on Manifest # 4, # 5 + # 6 (next to last digit wrong.) Revised # 00002 on 11/2/99	
6. <input checked="" type="checkbox"/> Generator's name, address and phone number - 10 CSR 25-5.262(2)(B)1.	2	GMR		
7. <input checked="" type="checkbox"/> All transporters' names, phone numbers, license plate #s, MO & EPA I.D.#s - 10 CSR 25-5.262(2)(B)1 and 2.	2	GMR	DOT shipping name does not match profile 10/27/99 manifest. Specific gravity from manifest # 00002, 10/27/99, 10/27/99 # 00003, 10/27/99, 10/27/99 Do it (silver) etching with sticker on non-hw.	
8. <input checked="" type="checkbox"/> Designated facility name, address, phone, MO & EPA I.D.#, - 10 CSR 25-5.262(2)(B)1 and 2.	2	GMR		
9. <input checked="" type="checkbox"/> DOT shipping name, Hazard Class and waste I.D. # (RQ - if required) - 10 CSR 25-5.262(2)(B) 1 and 2.	2	GMR	Specific gravity not listed on manifest # 00002, 10/27/99, 10/27/99 # 00003, 10/27/99, 10/27/99	
10. <input type="checkbox"/> Containers, quantity and specific gravity designated - 10 CSR 25-5.262(2)(B) 1 and 2.	2	GMR		
11. <input checked="" type="checkbox"/> Manifest signed and dated - 10 CSR 25-5.262(2)(B) 1.	2	GMR	Waste code D011 (silver) not listed for etching waste + C3066-02 profile	
12. <input checked="" type="checkbox"/> Out of state manifests have all required MO information - 10 CSR 25-5.262(2)(B)4.A.	2	GOR		
13. <input checked="" type="checkbox"/> Manifest continuation sheets are not used - 10 CSR 25-5.262(2)(B)1.	2	GOR	LDR notice filed 11/16/99 but shipped regulated waste to MET - MO on manifest 10/27/99 # 00002, 11/2/99 # 00003 LDR notification/certification not available for D001 Blanket Wash 10/27/99	
14. <input checked="" type="checkbox"/> Manifest returned within 35 days - or exception report submitted within 45 days - 10 CSR 25-5.262(2)(D)2.C.	2	GRR		
15. <input type="checkbox"/> Manifest summary reports and manifests sent to DNR quarterly OR annually if one shipment or no shipments are made - 10 CSR 25-5.262(2)(D)1.B and 10 CSR 25-5.262(2)(D)1.E.	2	GOR	LDR notice filed 11/16/99 but shipped regulated waste to MET - MO on manifest 10/27/99 # 00002, 11/2/99 # 00003 LDR notification/certification not available for D001 Blanket Wash 10/27/99	
16. <input checked="" type="checkbox"/> Tests waste or uses knowledge of waste to determine if the waste is restricted from land disposal - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a).	2	GLB		
17. <input checked="" type="checkbox"/> "Land-Ban" notification/certification sent with manifests or with 1st shipment under a tolling agreement - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(a).	2	GLB	LDR notice filed 11/16/99 but shipped regulated waste to MET - MO on manifest 10/27/99 # 00002, 11/2/99 # 00003 LDR notification/certification not available for D001 Blanket Wash 10/27/99	
18. <input type="checkbox"/> Notification/certification includes correct EPA hazardous waste number, corresponding treatment standards, manifest number, and waste analysis data - 10 CSR 25-7.268(1) incorporating 40 CFR 268.7(b)(4) and (5).	2	GLB		

G. PREPAREDNESS AND PREVENTION

1. <input checked="" type="checkbox"/> Arrangements with local emergency agencies - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(4) referencing 40 CFR 265.37.	2	GPT	Permitted thru the Marshall. Henninger has notification w/ fire dept.	COMMENTS
2. <input checked="" type="checkbox"/> Emergency coordinator(s) on premise or on call - 10 CSR 25-5.262(1) incorporating 40 CFR 262.34(d)(5)(i).	2	GSQ		

H. USED OIL STORAGE

1. <input checked="" type="checkbox"/> Used oil is managed properly and not disposed of into the environment or cause a public nuisance - 10 CSR 25-11.279(2)(B)4.B.	1	GOR		
2. <input checked="" type="checkbox"/> Containers in good condition - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(b)(1).	2			
3. <input checked="" type="checkbox"/> Containers storing used oil are not leaking - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(b)(2).	2			

4. <input checked="" type="checkbox"/> Containers/aboveground tanks are labeled or marked clearly "Used Oil" - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(1).	2	<i>Labelled "waste oil"</i> <i>Leak on 2nd floor / 1st floor ceiling boards needs to be cleaned.</i>
5. <input checked="" type="checkbox"/> Fill pipes used to transfer used oil into underground storage tanks are labeled or marked clearly "Used Oil" - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(c)(2).	2	
6. <input checked="" type="checkbox"/> Containers/tanks which are exposed to rainfall are closed - 10 CSR 25-11.279(2)(C)6.	2	
7. <input checked="" type="checkbox"/> Clean up any spills or leaks of used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279.22(d).	2	
8. <input checked="" type="checkbox"/> Mixtures of used oil and hazardous waste are properly managed - 10 CSR 25-11.279(2)(B)(2).	2	

I. ON-SITE BURNING

1. <input checked="" type="checkbox"/> Burn only their own used oil or used oil from DIYers or exempt farmers - 10 CSR 25-11.279(1) incorporating 40 CFR 279.23(a).	1	<i>N/A</i> COMMENTS
2. <input checked="" type="checkbox"/> Burn only in space heaters with design capacity < .5 million BTU/hr - 10 CSR 25-11.279(1) incorporating 40 CFR 279.23(b).	1	
3. <input checked="" type="checkbox"/> Combustion gases from the heater are vented to the ambient air - 10 CSR 25-11.279(1) incorporating 40 CFR 279.23(c).	1	

J. OFF-SITE SHIPMENTS TO APPROVED COLLECTION CENTERS

1. <input checked="" type="checkbox"/> Used oil is transported by transporters who have obtained EPA Identification numbers - 10 CSR 11.279(1) incorporating 40 CFR 279.24. (If no licensed transporter is used)	1	
2. <input checked="" type="checkbox"/> Transports used oil in a vehicle owned by the generator or owned by an employee of the generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(1).	2	
3. <input checked="" type="checkbox"/> Transports no more than 55 gallons of used oil at any time - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(2).	2	
4. <input checked="" type="checkbox"/> Transports the used oil to a used oil collection center that is registered, licensed, permitted, or recognized by a state/county/municipal government to manage used oil - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(a)(3).	2	
OR		
5. <input checked="" type="checkbox"/> Transports the used oil to an aggregation point that is owned and/or operated by the same generator - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(b)(3).	2	
OR		
6. <input checked="" type="checkbox"/> Used oil is reclaimed under a contractual agreement (tolling arrangement) - 10 CSR 25-11.279(1) incorporating 40 CFR 279.24(c).	2	

K. RESOURCE RECOVERY

1. <input checked="" type="checkbox"/> RR certification for energy recovery or reclamation of hazardous waste on-site - 10 CSR 25-9.020(1)(A)3.	1	GOR	<i>N/A</i> COMMENTS
2. <input checked="" type="checkbox"/> Still bottoms or RR residues disposed of properly - Section 260.380.1(7) RSMo.	1	GOR	
3. <input checked="" type="checkbox"/> Facility is classified as U, R1, or R2 accurately - 10 CSR 25-9.020(3)(A).	2	GOR	
4. <input checked="" type="checkbox"/> Facility meets the operating conditions of certification - 10 CSR 25-9.020(3).	2	GOR	
5. <input checked="" type="checkbox"/> Facility has submitted a written request and received approval from the DNR for all changes in operation including closure - 10 CSR 25-9.020(3)(E) 1 and 2.	2	GOR	
6. <input checked="" type="checkbox"/> Facility report submitted to DNR quarterly - 10 CSR 25-9.020(3)(E)6 referencing 10 CSR 25-7.264(2)(E)3.	2	GOR	
7. <input checked="" type="checkbox"/> Facility maintains a complete written operating record - 10 CSR 25-9.020(3)(E)5 referencing 40 CFR 264.73(b)(1) and (2) as modified by 10 CSR 25-7.264(2)(E)2.	2	GOR	
8. <input checked="" type="checkbox"/> Facility has notified EPA and the state that it qualifies for a small quantity on-site burner exemption or has interim status or a permit if it burns hazardous waste on-site - 10 CSR 25-7.266(1) incorporating 40 CFR 266.108 and 40 CFR 266.103.	2	GOR	

CHECKLIST KEYCheck the ☒ if in compliance.Circle the ☐ if not in compliance and provide comment.

N/A = Not Applicable.

An item emphasized by a black line on the left is a serious deviation from the requirements (Class I violation).

An unemphasized item is a significant deviation from the requirements (Class II violation unless conditions warrant Class I).

COMMENTS: INCLUDE DISCUSSION OF FACILITIES WASTE MINIMIZATION PLAN

N/A

Check all Potential Multi-Media Violations and Impacts (specify and comment below if possible)

APC		PDW	
<input type="checkbox"/> Fugitive Dust	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Taste & Odors	<input type="checkbox"/> Color
<input type="checkbox"/> Particulate	<input type="checkbox"/> Odors	<input type="checkbox"/> Bacteria	<input type="checkbox"/> Flow
<input type="checkbox"/> Burning	<input type="checkbox"/> Toxics	<input type="checkbox"/> Pressure	<input type="checkbox"/> Toxics
<input type="checkbox"/> Other		<input type="checkbox"/> Other	

SWM		HW	
<input type="checkbox"/> Open Dumps	<input type="checkbox"/> SLF	<input type="checkbox"/> Transportation	<input type="checkbox"/> USTs/LUSTs
<input type="checkbox"/> Littering	<input type="checkbox"/> Other	<input type="checkbox"/> PCBs	<input type="checkbox"/> Other
<input type="checkbox"/> Waste Tire Dump			

WPC		
<input type="checkbox"/> Animal Waste	<input type="checkbox"/> Sawdust	<input type="checkbox"/> Ground Water
<input type="checkbox"/> Bypassing	<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water
<input type="checkbox"/> Treatment Plant Oper.	<input type="checkbox"/> Single Family	<input type="checkbox"/> Other

COMMENTS:

INSPECTOR'S SIGNATURE

Alma Moreno-Gabun

ATTACHMENT 6 Page 9 of 12

DATE

7/6/2000

Operators put in ink, razor, 1
Greg + Mark Willerson are responsible for check
Containers, clean, label,

SATELLITES

1. WHERE point of generation _____
PERSON RESPONSIBLE Greg/Mark
WASTE name volume Shop Rags (Not hazardous)
CONTAINER 55 gal or less labeled dated closed _____

2. WHERE point of generation _____
PERSON RESPONSIBLE Greg/Mark
WASTE name volume Blanket Wash - new machine (what color?) Clear
CONTAINER 55 gal or less labeled dated closed _____
HW
Deol

3. WHERE point of generation _____
PERSON RESPONSIBLE Greg/Mark
WASTE name volume Ink Not h.w.,
CONTAINER 55 gal or less labeled dated closed _____

4. WHERE point of generation _____
PERSON RESPONSIBLE _____
WASTE name volume Auto Airline Coating
CONTAINER 55 gal or less labeled dated closed _____

5. WHERE point of generation _____
PERSON RESPONSIBLE _____
WASTE name volume Coolant - old machine
CONTAINER 55 gal or less labeled dated closed _____

6. WHERE point of generation _____
PERSON RESPONSIBLE Gre
WASTE name volume Coolant - new machine Dowtherm
CONTAINER 55 gal or less labeled dated closed _____

None

7. WHERE point of generation _____
PERSON RESPONSIBLE _____
WASTE name volume Coolant - new machine Blanket Wash - old machine
CONTAINER 55 gal or less labeled dated closed _____

8. used oil

① Dampening solution Deol

Activity #: _____

Facility Status: ☐ SQG ☐ LQG ☐ I.S./P

Page ____ of ____

EXIT BRIEFING WORKSHEET

1. Initial procedures:

- ☒ Reviewed all data collection worksheets, checklists, field notes, and collected documents to ensure that all necessary information has been collected and documented. This review included the following:

- Documentation of the location of the violation, the type and amount of waste involved, the duration or time frame of the violation, the specific dates when the violation first started occurring, and the number of times or frequency that the same violation was found at the facility.

- Documentation regarding illegal waste management units, including: information about the units location (diagram/picture), its dimensions, its conditions, the construction material, the gradient of the base (for spills), and all other relevant information.

- Documentation regarding illegal disposal situations, including: information about each occurrence, eg. where the waste was sent or disposed of, how it was shipped, who shipped it, when it was shipped or disposed of, how much was shipped or disposed of, how the waste was managed at the disposal site (land disposed, burned, etc.).

N/A Identified/verified violations from previous inspection were corrected (if applicable)

Note additional information needed and/or questions for facility representative(s):

☒ Prepared Notice of Violation (NOV) form, if applicable

☒ Prepared Document Receipt form

N/A Pollution Prevention Checklist completed

☒ Multi-Media screening completed, media(s): all

2. Exit Briefing:

☒ Addressed all unresolved inspection related issues

☒ Provided facility with Document Receipt

☒ Provided facility with Page 3 of CBI form (only if facility makes a CBI claim)

☒ Explained that the findings and observations resulting from the inspection were based on your current knowledge of RCRA and that the final findings may differ

☒ Explained that the compliance officer will make the final compliance decisions regarding the findings and observations of the inspection and that all compliance related questions should be directed toward them

☒ Explained that any recommendations provided during the inspection are for informational purposes only and DO NOT require specific actions by the facility

☒ Summarized the findings and observations for the facility representatives

Notes

Requested copy of inspection report.
Printing Industry Info.

Activity #: _____

Facility Status: ☒ SQG ☐ LQG ☐ I.S./P

Page ____ of ____

3. Notice of Violation prepared and issued? ☒ YES ☐ NO (If yes complete below)☒ All violations were clearly identified and explained, including: the circumstances, location, and the applicable regulations☐ Explained the importance of a timely and adequate response4. Specific information requested from facility? ☒ YES ☐ NO
(Note: Request all information in writing and copy)List information to be submitted to EPA: See attached list.5. Actions facility representatives said they would take as a result of the inspection:
(Note who made these statements) ☒ YES ☐ NOHarp will get information on list referred above.6. Facility appears to have awareness of RCRA regulations and/or has its own environmental staff? ☐ YES ☒ NOSome knowledge; limited7. Facility appears to have little to no knowledge of RCRA? ☒ YES ☐ NO8. Facility has copy of applicable regulations? ☐ YES ☒ NO Provided9. Note attitude and demeanor of facility representative(s) if applicable: ☐ N/A ^{14g}Very forthcoming + helpful. All staff seemed honest & forthcoming w/ information.DOCUMENTATION: HOW are the facts known? WHO said what? WHEN did it happen?
HOW long did it happen? and WHAT PROOF WAS OBTAINED?

RCRIS HANDLER INFORMATION REPORT

June 27, 2000

The information summarized below has been entered into EPA's RCRA Computer Data Base for the INSTALLATION LOCATION AND EPA RCRA Identification Number listed. If any of this information is inaccurate, you may notify us of the change(s) by writing to us, telephoning us, or by completing a Notification of Regulated Waste Activity Form (EPA Form 8700-12), a copy of which is attached, or simply marking any changes on this report and sending it to EPA at:

EPA REGION 7 - ARTD/RESP
901 N 5th Street
KANSAS CITY, KANSAS 66101

Your cooperation in helping us to maintain accurate records is appreciated. If you have any questions, please call our Iowa RCRA Hazardous Waste Inquiry Helpline number (913) 551-7861, and leave a message. Someone will get back to you as soon as possible.

EPA RCRA ID Number: MOD985805464
Name of Company/Installation: *Gloe Graphics Inc. DBA*
Location of Installation: ROSSE LITHOGRAPHING CO
City/State/Zip: 2100 WYANDOTTE 2ND FL
County: KANSAS CITY, MO 64108
JACKSON

Mailing Address: 2100 WYANDOTTE 2ND FL
City/State/Zip: KANSAS CITY, MO 64108

Installation Contact: BRIAN GLOE
Job Title: *Co-CEO*
Phone Number: (816) 842-4669
Contact's Address: 2100 WYANDOTTE 2ND FL
City/State/Zip: KANSAS CITY, MO 64108

Current Owner of Installation: ~~DOLORES~~, BRIAN, KEITH GLOE *Business only, not bldg*
Owner's Address: { NA
City/State/Zip: { NA, MO NA
Phone Number: { (NA) -

Land Type: *Private*
Owner Type: Private

TYPE(S) OF REGULATED ACTIVITY: SMALL QUANTITY GENERATOR

Hazardous Wastes Handled: D001, Used oil

Building - Sam + Linda Long #1.3M lien on building re: PCB Inc. Contamination. Not air borne
Office on 1st floor; but people in Texas
SPFD has their address + phone #

Alma Morone Zahner
SIGNATURE

NAME & OFFICIAL TITLE

7/6/2000
DATE SIGNED

All information you submit in a notification can be released to the public, according to the Freedom of Information Act, unless it is determined to be confidential by U.S. EPA pursuant to 40 CFR Part 2. Since notification information is very general, the U.S. EPA believes it is unlikely that any information in your notification could qualify to be protected from release. However, you may make a claim of confidentiality by printing the word "CONFIDENTIAL" on both sides of the Notification Form and on any attachments or submittals including this information report. EPA will take action on the confidentiality claims in accordance with 40 CFR Part 2.

ATTACHMENT 11 Page 1 of 1



^{20 pages}
Pages 40-59 did
not come through,
so called Hank to have
these re-faxed. They
were. See 7/12 fax
of 21 pages (including cover page)
to complete this set.

FAX
816-842-7525
2100 Wyandotte
Kansas City, MO
84108

Facsimile Transmission Cover Sheet

Date 7.11.00

Number of Pages _____

To: ALMA MORENO LAMMCompany: EPA REGION VIIFax Number: 913-551-8752From: HANK ROSEBROUGH

If you did not receive all the pages, please call us at
816-842-4669

Remarks/Instructions: _____

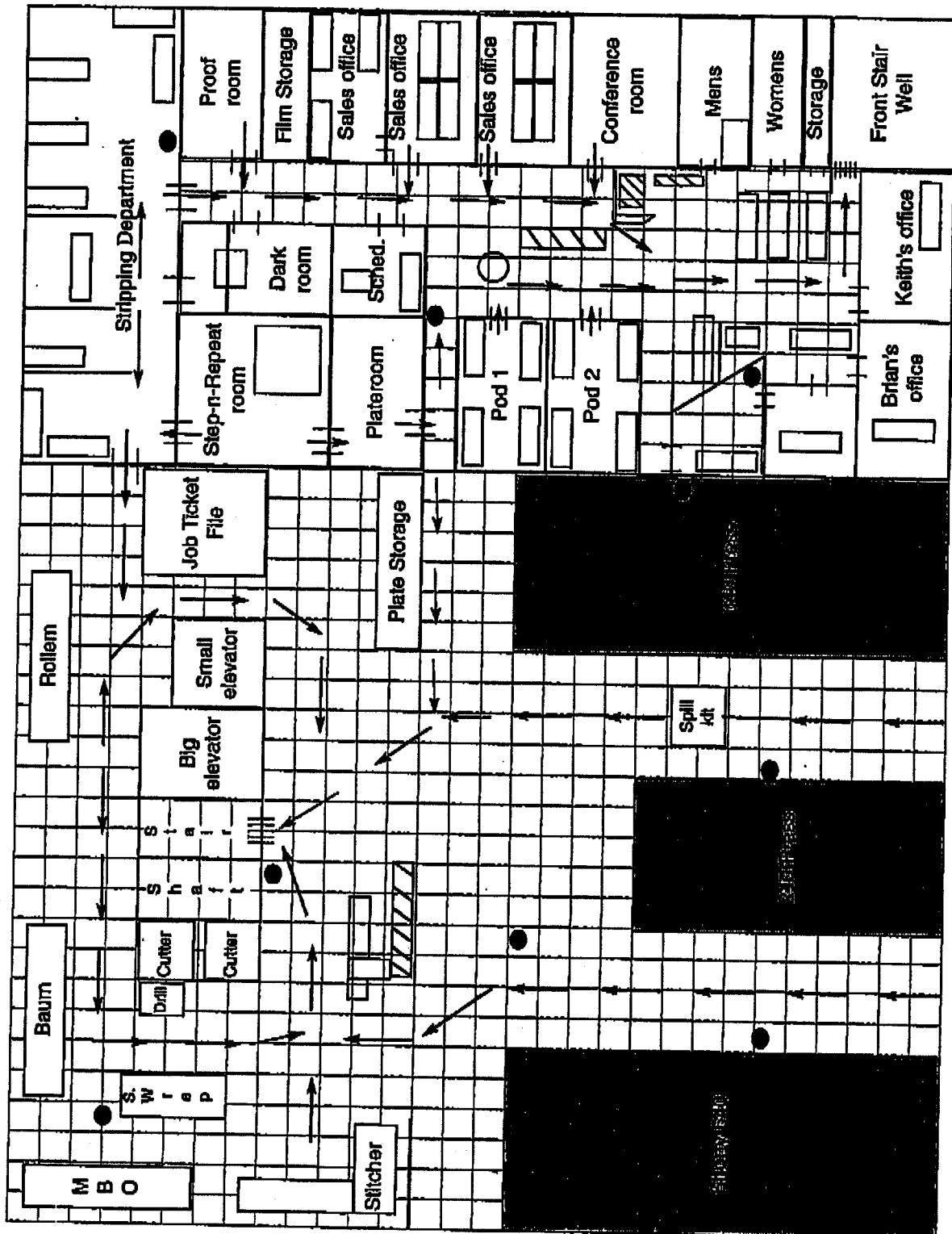
ALMA,HERE IS THE INFO YOU REQUESTED.

Thank You.

Our Goal Is Delighted Customers!

ATTACHMENT 2 Page 1 of 60

In case of emergency contact, Plant Manager



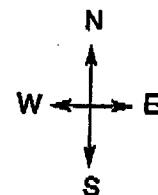
● - Fire extinguish-

| | - Door Way

|||| - Exit

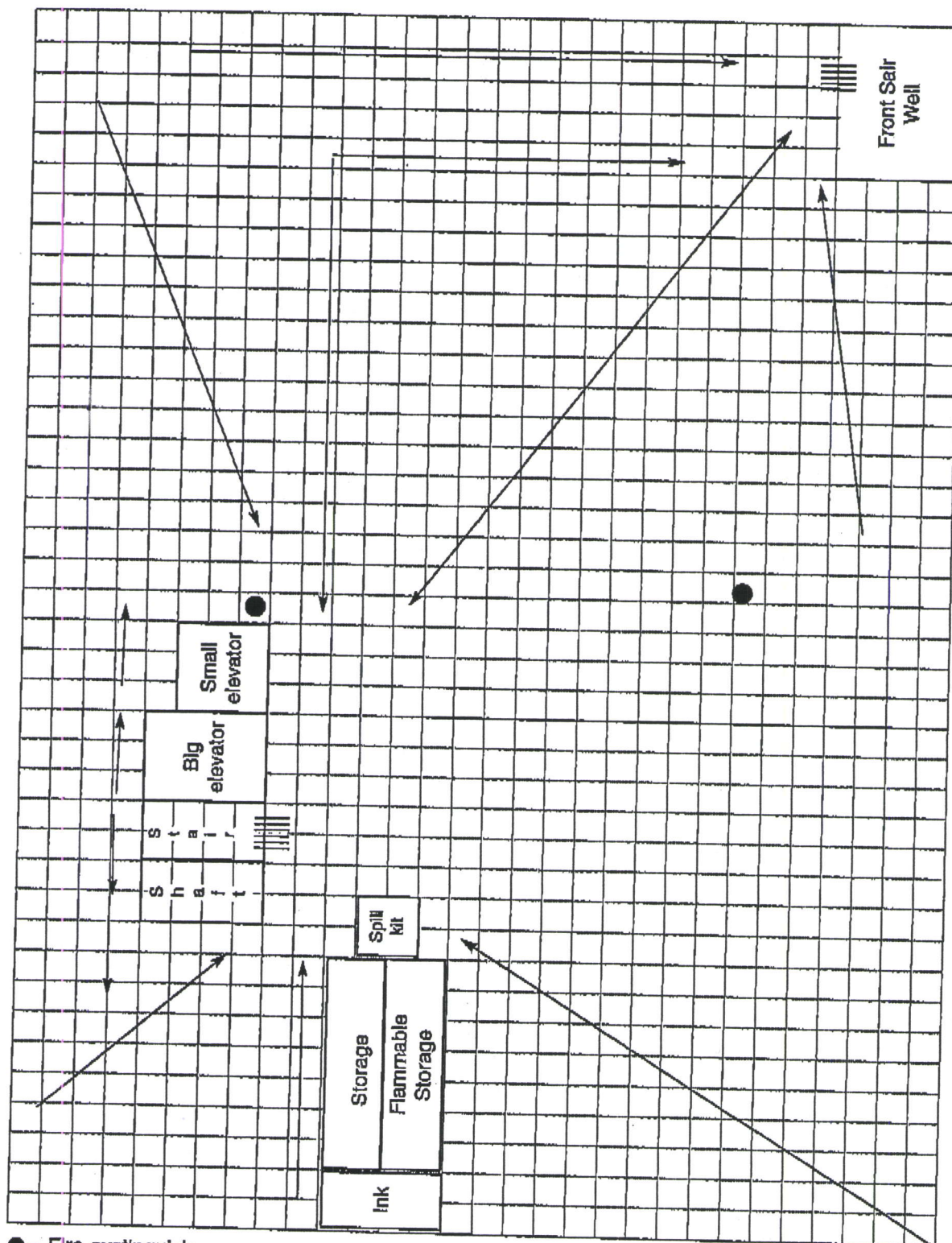
Fire escape route for all departments.

Please follow the arrows when walking calmly towards the exit.



rv. 7-24-98

In case of emergency contact, Plant Manager

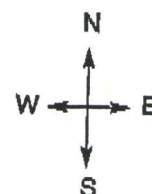


● - Fire extinguish-

|||| - Exit

Fire escape route for all.

Please follow the arrows when walking
calmly towards the exit.



n. 7-24-98



PHILIPS

Philips Lighting Company

MATERIAL SAFETY DATA SHEET

PRODUCT: ALTO™ Fluorescent Lamp
F-96/T-12/RS/CW/EW/ALTO

Revised 10/16/96

SECTION 1: MANUFACTURER

Manufacturer's Name and Address: Philips Lighting Company
 A division of Philips Electronics
 North America Corporation
 200 Franklin Square Drive
 Somerset, New Jersey 08875

Emergency Telephone No.: (908)563-3197
Other Information Calls: (908)563-3488

SECTION 2: HAZARDOUS INGREDIENTS

	OSHA (PEL) mg/m ³	ACGIH (TLV) mg/m ³ TWA	% by Wt.
<u>Inert Ingredients (Glass, Aluminum, etc.)</u>			Approx 97%
Phosphor Powder			Approx 3%
Nuisance Dust	15	10	
Fluorides* (as F)		2.5	Approx .01%
Antimony*(7440-36-0)	.5	.5	Approx .01%
Manganese*(7439-96-5)	.2	.2	Approx .02%
Mercury (7439-97-6)	.1	.025	< than 20 ppm

*These materials are tightly bound within the crystal matrix of the phosphor (Calcium Phosphate).

SECTION 3: CHEMICAL/PHYSICAL DATA

Not applicable. This item is a light bulb. The bulb is glass, the base is a coated aluminum. The coating is inert.

A division of
 Philips Electronics North America Corporation

200 Franklin Square Drive
 P.O. Box 6400
 Somerset, NJ 08875-6800
 Tel: 908 563-3000



PHILIPS

Philips Lighting Company

MSDS -- ALTO™ Fluorescent Lamps Page 2 of 3

SECTION 2: HAZARDOUS INGREDIENTS (Cont'd)

Mercury (7439-97-6)	.1	.025	< than 20 ppm
---------------------	----	------	---------------

† PEL & TLV are given for magnesium, aluminum oxide, and yttrium. Barium aluminate is not a soluble compound.

SECTION 3: CHEMICAL/PHYSICAL DATA

Not applicable. This item is a light bulb 4 ft. long, 1.5 inches in diameter. The bulb is glass, the base is a coated aluminum. The coating is inert.

SECTION 4: FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION DATA NOT APPLICABLE -- under extreme heat, glass envelope might melt or crack.

SECTION 5: REACTIVITY DATA

Stability: Lamp is stable.
Polymerization: Not applicable.
Incompatibility: Glass will react with Hydrofluoric Acid.

SECTION 6: HEALTH HAZARD DATA

Not applicable to the intact lamp. Breakage of the lamp may result in some exposure to the phosphor powder dust and to a very little amount of elemental mercury vapor. No adverse effects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged or frequent exposure should be avoided through the use of adequate ventilation during disposal of large quantities of lamps.

EMERGENCY FIRST AID: NORMAL FIRST AID PROCEDURE FOR GLASS CUTS IF SUCH OCCUR THROUGH LAMP BREAKAGE.



PHILIPS

Philips Lighting Company

MSDS -- ALTO™ Fluorescent Lamps
Page 3 of 3

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

Normal precautions should be taken for the collection of broken glass.

Waste Disposal Method: At the end of rated life, when this lamp is removed from service, it will, when subjected to the current Toxic Characteristic Leaching Procedure (TCLP) prescribed by the Environmental Protection Agency for determining whether an item is a hazardous waste, be listed as a non-hazardous waste under current E. P. A. definition. Philips Lighting will provide the test protocol on request. This result will allow the end user to evaluate all of the disposal options which may be available in the particular state in which the generator facility is located. This lamp passes all of the tests required by California to qualify as a non-hazardous waste in that state. The generator should check with local and state officials for their guidance. Philips encourages recycling of its products by qualified recyclers.

SECTION 8: CONTROL MEASURES

Respiratory Protection: Appropriate dust mask should be used if large quantities of lamps are being broken for disposal.

Ventilation: Avoid inhalation of any airborne dust. Provide local exhaust when disposing of large quantities of lamps.

Hand and Eye Protection: Appropriate hand and eye protection should be worn when disposing of large quantities of lamps or handling broken lamps.

SECTION 9: REGULATORY INFORMATION

Under current federal regulations, the ALTO™ lamp will qualify as a Subtitle "D" waste.

January 1996

S0996001

A Division of
Philips Electronics North America Corporation

200 Franklin Square Drive
P.O. Box 6800
Somerset, NJ 08873-6800
Tel. 908 563-3000

**PHILIPS****Philips Lighting Company****MATERIAL SAFETY DATA SHEET**

Revision: 7/15/96

PRODUCT: ALTO™ Fluorescent Lamp (34W Econ-O-Watt™ Cool White)
34 W Econo-Watt™ (Cool White & Warm White)
Spec Econo-Watt™ Series
Ultralume™ Series

SECTION 1: MANUFACTURER

Manufacturer's Name and Address: Philips Lighting Company
A division of Philips Electronics
North America Corporation
200 Franklin Square Drive
Somerset, New Jersey 08875

Emergency Telephone No.: (908)563-3197
Other Information Calls: (908)563-3488

SECTION 2: HAZARDOUS INGREDIENTS

	OSHA (PEL) mg/m ³	ACGIH (TLV) mg/m ³ TWA	% by Wt.
<u>Inert Ingredients (Glass, Aluminum, etc.)</u>			Approx 97%
If Cool White or Warm White:			
Phosphor Powder			Approx 3%
Nuisance Dust	15	10	
Fluorides* (as F)		2.5	Approx .01%
Antimony*(7440-36-0)	.5	.5	Approx .01%
Manganese*(7439-96-5)	.2	.2	Approx .02%

*These materials are tightly bound within the crystal matrix.

If Spec or Ultralume, may have some of the above, but main phosphor components are listed below:

Cerium Magnesium Terbium Aluminate†	N/A	10	Approx .25%
Barium Magnesium aluminate†	N/A	10	Approx .5%
Yttrium Oxide (1314-36-9)†	1.0	1.0	Approx .5%

A division of
Philips Electronics North America Corporation

200 Franklin Square Drive
P.O. Box 6800
Somerset, NJ 08875-6800
Tel 908 563-3000



PHILIPS

Philips Lighting Company

MSDS - T-12/RS/CW/EWII/ALTO

Page 2 of 3

SECTION 4: FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION DATA NOT APPLICABLE -- under extreme heat, glass envelope might melt or crack.

SECTION 5: REACTIVITY DATA

Stability: Lamp is stable.
Polymerization: Not applicable.
Incompatibility: Glass will react with Hydrofluoric Acid.

SECTION 6: HEALTH HAZARD DATA

Not applicable to the intact lamp. Breakage of the lamp may result in some exposure to the phosphor powder dust and to a very little amount of elemental mercury vapor. No adverse affects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged or frequent exposure should be avoided through the use of adequate ventilation during disposal of large quantities of lamps.

EMERGENCY FIRST AID: NORMAL FIRST AID PROCEDURE FOR GLASS CUTS IF SUCH OCCUR THROUGH LAMP BREAKAGE.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

Normal precautions should be taken for the collection of broken glass.

Waste Disposal Method: At the end of rated life, when this lamp is removed from service, it will, when subjected to the current Toxic Characteristic Leaching Procedure (TCLP) prescribed by the Environmental Protection Agency for determining whether an item is a hazardous waste, be listed as a non-hazardous waste under current E. P. A. definition. Philips Lighting will provide the test protocol on request. This result will allow the end user to evaluate all of the disposal options which may be available in the particular state in which the generator facility is located. The generator should check with local and state officials for their guidance. Philips encourages recycling of its products by qualified recyclers.

A division of
Philips Electronics North America Corporation

200 Franklin Square Drive
Rt. Box 6000
Somerset, NJ 08875-6000
Tel: 908 562-3000



PHILIPS

Philips Lighting Company

MSDS -- T-12/RS/CW/EW/ALTO

Page 3 of 3

SECTION 8: CONTROL MEASURES

Respiratory Protection: Appropriate dust mask should be used if large quantities of lamps are being broken for disposal.

Ventilation: Avoid inhalation of any airborne dust. Provide local exhaust when disposing of large quantities of lamps.

Hand and Eye Protection: Appropriate hand and eye protection should be worn when disposing of large quantities of lamps or handling broken lamps.

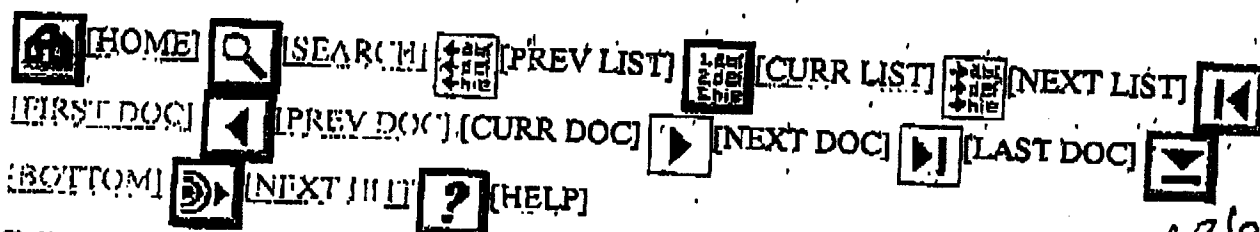
SECTION 9: REGULATORY INFORMATION

Under current federal regulations, the ALTO™ lamp will qualify as a Subtitle "D" waste.

September 1996

S0996004

#69

**Mobil**The energy
to make a difference™

Print View

626

610857-00

610857-00 MOBILGEAR 626
MATERIAL SAFETY DATA BULLETIN**1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: MOBILGEAR 626
SUPPLIER: MOBIL OIL CORP.
NORTH AMERICA MARKETING AND REFINING
3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and MSDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:
This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.
See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.
EFFECTS OF OVEREXPOSURE: No significant effects expected.
EMERGENCY RESPONSE DATA: Amber Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call

#69

a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 201(400) (ASTM D-92) .. Flammable limits - LEL: NA, UEL: NA.

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Elemental oxides. Metal oxides.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including

intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good

personal hygiene practices should always be followed.
EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 204(400) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.887

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 68.0

VISCOSITY AT 100 C, cSt: 9.2

POUR POINT C(F): -23(-10)

FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NA

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Elemental oxides.

Metal oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: 0 or greater but 6 or less). ---Based on testing of similar

products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Ames Test and IP-346.

---SENSITIZATION (SUMMARY)---

Representative Mobil formulations have not caused skin sensitization in guinea pigs.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: This product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur.

Acute LC/EC50: Juvenile Rainbow Trout: Practically non-toxic ---Based on testing of similar products.

Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.
RID/ADR: NOT REGULATED BY RID/ADR.
IMO: NOT REGULATED BY IMO.
IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.
EU Labeling: EU labeling not required.
U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.
This product contains no chemicals reportable under SARA (313) toxic release program.
THIS PRODUCT HAS BEEN AUTHORIZED BY OSDA FOR USE UNDER THE FOLLOWING CATEGORY: H2 - Lubricants With No Food Contact
The following product ingredients are cited on the lists below:
CHEMICAL NAME

CAS NUMBER LIST CITATIONS

*** NO REPORTABLE INGREDIENTS ***

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NY RTK
5=NTP SUS	10=OSHA 2	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: INDUSTRIAL GEAR OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.













Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 1* 1* 0* 0* 1*, MPPEC: A, TRN: 610857-00,
GLIS: 400248, CMCS97: 970633, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 08NOV1999

Legally required information is given in accordance with applicable
Information given herein is offered in good faith as accurate, but
without guarantee. Conditions of use and suitability of the product for
particular uses are beyond our control; all risks of use of the product
are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL
WARRANTIES, OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO
THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a
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MATERIAL SAFETY DATA SHEET
For Printing Inks and Related Materials

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ 2**SECTION I PRODUCT IDENTIFICATION**

PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) Yellow

MANUFACTURER'S CODE:

86000-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment 12	6358-85-6	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Yellow Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

SECTION VI HEALTH HAZARD DATA -- CONTI

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
 Dilute with 1-2 glasses of water
 Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE

☐

UNSTABLE HAZARDOUS POLYMERIZATION

☐

MAY OCCUR

☒

WILL NOT OCCUR

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
 Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P ☒ 1

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) Warm Red

MANUFACTURER'S CODE:

86001-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment 53:1	5160-02-1	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Red Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD CQC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION
 EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
 2. Eye contact may cause irritation
 3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression
- CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0
Barium Compound	7440-39-3	20.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks

An Inland Industries Company

Distributors of Graphic Arts Supplies and Equipment

MATERIAL SAFETY DATA SHEET
 For Printing Inks and Related Materials

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H 1 F 1 R 0 P/E 1**SECTION I PRODUCT IDENTIFICATION**
 PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) Rubine Red

MANUFACTURER'S CODE:

86002-X

SECTION II MANUFACTURER
 MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020
SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment 57:1	5281-04-9	15 mg/m3 as dust		

 All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Red Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD CQC	LEL Not Explosive
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EXTINGUISHING METHOD
☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA**PRIMARY ROUTE(S) OF ENTRY:**☐ INHALATION☒ SKIN☐ INGESTION**EFFECTS OF OVEREXPOSURE:**

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!

Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE☐ UNSTABLE HAZARDOUS POLYMERIZATION☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks

An Inland Industries Company

Distributors of Graphic Arts Supplies and Equipment

MATERIAL SAFETY DATA SHEET
 For Printing Inks and Related Materials

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ 1**SECTION I PRODUCT IDENTIFICATION**

PRODUCT CLASS: Printing Ink, Oxidizing

PRODUCT NAME: M/C-T X/S PANTONE(R) Rhodamine Red

MANUFACTURER'S CODE:

86003-X

SECTION II MANUFACTURER
 MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1801 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-6020
SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Red 81	68929-14-6	15 mg/m3 as dust		

 All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Red Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD: CDC	LEL Not Explosive
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EXTINGUISHING METHOD
☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:
 Keep container cool to prevent pressure build up
 due to extreme heat.
SECTION VI HEALTH HAZARD DATA
 PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION
 EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!

Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE☐

UNSTABLE HAZARDOUS POLYMERIZATION

☐MAY OCCUR ☒ WILL NOT OCC

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☐

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) Purple

MANUFACTURER'S CODE:

86004-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1801 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Violet 3	1325-82-2	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Purple Paste	ODOR Oleopresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!

Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks
Distributors of Graphic Arts Supplies and Equipment

NO. 409 P. 32/59
MATERIAL SAFETY DATA SHEET
For Printing Inks and Related Materials

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ F ☒ R ☒ P/E ☐

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing

PRODUCT NAME: M/C-T X/S PANTONE(R) Reflex Blue

MANUFACTURER'S CODE:

86005-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
STREET ADDRESS: 1801 PROSPECT AVENUE
CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Blue 61	1324-76-1	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Blue Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY:

☐ INHALATION☒ SKIN☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks

An Inland Industries Company

Distributors of Graphic Arts Supplies and Equipment

 NO. 409 P. 34/59
MATERIAL SAFETY DATA SHE
 For Printing Inks and Related Material

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 PE

SECTION I PRODUCT IDENTIFICATION

 PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) Process Blue

MANUFACTURER'S CODE:

86006-X

SECTION II MANUFACTURER

 MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Blue 15:3	147-14-8	15 mg/m3 as dust		

 All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Blue Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

 Keep container cool to prevent pressure build up
 due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY:

☐ INHALATION☒ SKIN☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!

Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE☐

UNSTABLE HAZARDOUS POLYMERIZATION

☐MAY OCCUR ☒ WILL NOT OCC

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks

An Inland Industries Company

Distributors of Graphic Arts Supplies and Equipment

 NO. 409 P. 36/59
MATERIAL SAFETY DATA SHEET
 For Printing Inks and Related Material

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E**SECTION I PRODUCT IDENTIFICATION**
 PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) Green

MANUFACTURER'S CODE:

85007-X

SECTION II MANUFACTURER
 MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020
SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Green 7	1328-53-6	15 mg/m3 as dust		

 All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Green Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD
☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:
 Keep container cool to prevent pressure build up
 due to extreme heat.
SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY:

☐ INHALATION☒ SKIN☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes

2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!

Dilute with 1-2 glasses of water

Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE

UNSTABLE HAZARDOUS POLYMERIZATION

MAY OCCUR ☒ WILL NOT OCC

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition

2. Wipe up or shovel material into an approved container

3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks

An Inland Industries Company

Distributors of Graphic Arts Supplies and Equipment

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ 1

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) Trans. White

MANUFACTURER'S CODE:

86008-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1801 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-6020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		

All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Amber Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY:

☐ INHALATION☒ SKIN☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!

Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY

☒ STABLE☐ UNSTABLE HAZARDOUS POLYMERIZATION☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

**FAX**

816-842-7525

8100 Wyandotte

Kansas City, MO

6 4 1 0 8

Facsimile Transmission Cover SheetDate 7-11-00

Number of Pages _____

To: ALMA MORENO LHMCompany: EPA REGION VIIFax Number: 913-551-8752From: HANK ROSEBROUGH

If you did not receive all the pages, please call us at
816-842-4669

Remarks/Instructions: _____

ALMA,HERE IS THE INFO YOU REQUESTED.

Thank You.

Our Goal Is Delighted Customers!



Manufacturers of Printing Inks

An Inland Industries Company

Distributors of Graphic Arts Supplies and Equipment

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ A**SECTION I PRODUCT IDENTIFICATION**

PRODUCT CLASS: Printing Ink, Oxidizing

MANUFACTURER'S CODE:

PRODUCT NAME: M/C-T X/S PANTONE(R) Mixing Black

86009-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY

STREET ADDRESS: 1001 PROSPECT AVENUE

CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127

TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Black 7	1333-86-4	3.5 - 9 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE	VAPOR DENSITY VS AIR	LIQUID DENSITY VS WATER	PERCENT VOLATILE BY WEIGHT
450 °F	<input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	<input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	~10
APPEARANCE	ODOR	EVAPORATION RATE VS BUTYL ACETATE	
Black Paste	Oleoresinous	<input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION	FLASH POINT	LEL
OSHA: III-B DOT: Not Regulated	265 °F METHOD C/C	Not Explosive

EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY:

☐ INHALATION☒ SKIN☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks

An Inland Industries Company

Distributors of Graphic Arts Supplies and Equipment

 NO. 459 P. 4/21
MATERIAL SAFETY DATA SHEET
 For Printing Inks and Related Materials

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ F ☒ R ☒ P/E ☒ A**SECTION I PRODUCT IDENTIFICATION**
 PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) 012 Yellow

MANUFACTURER'S CODE:

86012-X

SECTION II MANUFACTURER
 MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020
SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Yellow 13	5102-83-0	15 mg/m3 as dust		

 All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Yellow Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD
☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:
 Keep container cool to prevent pressure build up
 due to extreme heat.
SECTION VI HEALTH HAZARD DATA
 PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION
 EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
 2. Eye contact may cause irritation
 3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression
- CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.
PROTECTIVE GLOVES: Recommended
RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained
EYE PROTECTION: Splash goggles are recommended during wash-up
OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks
Distributors of Graphic Arts Supplies and Equipment

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ A

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing
PRODUCT NAME: M/C-T X/S PANTONE(R) Violet

MANUFACTURER'S CODE:

86016-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
STREET ADDRESS: 1601 PROSPECT AVENUE
CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Violet 3	1325-82-2	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Blue Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.
PROTECTIVE GLOVES: Recommended
RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained
EYE PROTECTION: Splash goggles are recommended during wash-up
OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ A**SECTION I PRODUCT IDENTIFICATION**
 PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S PANTONE(R) 021 Orange

MANUFACTURER'S CODE:

86021-X

SECTION II MANUFACTURER
 MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1801 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020
SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8' Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Orange 34	15793-73-4	15 mg/m3 as dust		

 All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Orange Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD
☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA
 PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION
 EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.
PROTECTIVE GLOVES: Recommended
RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained
EYE PROTECTION: Splash goggles are recommended during wash-up
OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks
Distributors of Graphic Arts Supplies and Equipment

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ F ☒ R ☒ PE ☒ A**SECTION I PRODUCT IDENTIFICATION**

PRODUCT CLASS: Printing Ink, Oxidizing
PRODUCT NAME: M/C-T X/S PANTONE(R) 032 Red

MANUFACTURER'S CODE:

86032-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
STREET ADDRESS: 1601 PROSPECT AVENUE
CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Red 112	6535-46-24	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Red Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks
Distributors of Graphic Arts Supplies and Equipment

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ A**SECTION I PRODUCT IDENTIFICATION**

PRODUCT CLASS: Printing Ink, Oxidizing
PRODUCT NAME: M/C-T X/S PANTONE(R) 072 Blue

MANUFACTURER'S CODE:

86072-X

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
STREET ADDRESS: 1601 PROSPECT AVENUE
CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
TELEPHONE NUMBER: (816) 463-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Blue 1:2	68413-81-0	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Blue Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD CDC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.
PROTECTIVE GLOVES: Recommended
RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained
EYE PROTECTION: Splash goggles are recommended during wash-up
OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ A

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S Premium Process Black

MANUFACTURER'S CODE:

862440A

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Black 7	1333-86-4	3.5 - 9 mg/m3 as dust		
C.I. Pigment Blue 61	1324-76-1	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Black Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD: COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.
PROTECTIVE GLOVES: Recommended
RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained
EYE PROTECTION: Splash goggles are recommended during wash-up
OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'S CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 P/E ☒ A

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing

MANUFACTURER'S CODE:

PRODUCT NAME: M/C-T X/S Premium Process Cyan

862441A

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1801 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Blue 15:3	147-14-8	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Blue Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
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EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.
PROTECTIVE GLOVES: Recommended
RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained
EYE PROTECTION: Splash goggles are recommended during wash-up
OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 PE ☒ A**SECTION I PRODUCT IDENTIFICATION**
 PRODUCT CLASS: Printing Ink, Oxidizing
 PRODUCT NAME: M/C-T X/S Premium Process Magenta

MANUFACTURER'S CODE:

862442A

SECTION II MANUFACTURER
 MANUFACTURER'S NAME: MILLER COOPER COMPANY
 STREET ADDRESS: 1601 PROSPECT AVENUE
 CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
 TELEPHONE NUMBER: (816) 483-6020
SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8 Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Red 57:1	5281-04-9	15 mg/m3 as dust		

 All ingredients in this product are on the TSCA Inventory List
 40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Red Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD CDC	LEL Not Explosive
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EXTINGUISHING METHOD
☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER
UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA
 PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION
EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.
PROTECTIVE GLOVES: Recommended
RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained
EYE PROTECTION: Splash goggles are recommended during wash-up
OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.



Manufacturers of Printing Inks
Distributors of Graphic Arts Supplies and Equipment

REVISION DATE 2000/07/07

HAZARDOUS MATERIALS IDENTIFICATION RATING: H ☒ 1 F ☒ 1 R ☒ 0 PE ☒ A

SECTION I PRODUCT IDENTIFICATION

PRODUCT CLASS: Printing Ink, Oxidizing
PRODUCT NAME: M/C-T X/S Premium Process Yellow

MANUFACTURER'S CODE:

862443A

SECTION II MANUFACTURER

MANUFACTURER'S NAME: MILLER COOPER COMPANY
STREET ADDRESS: 1601 PROSPECT AVENUE
CITY, STATE, ZIP CODE: KANSAS CITY, MO 64127
TELEPHONE NUMBER: (816) 483-5020

SECTION III HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	ACGI # TIV	% (OPTIONAL)
Hydrotreated Light Distillate	64742-47-8	2400 mg/m3 (8' Hour)		
Vegetable Oils	N/A	N/A		
C.I. Pigment Yellow 12	6358-85-6	15 mg/m3 as dust		

All ingredients in this product are on the TSCA Inventory List
40 CFR 710

Emergency Response Telephone (800) 289-6246 Ext. 600

SECTION IV PHYSICAL DATA

BOILING RANGE 450 °F	VAPOR DENSITY VS AIR <input checked="" type="checkbox"/> HEAVIER <input type="checkbox"/> LIGHTER	LIQUID DENSITY VS WATER <input type="checkbox"/> HEAVIER <input checked="" type="checkbox"/> LIGHTER	PERCENT VOLATILE BY WEIGHT ~10
APPEARANCE Yellow Paste	ODOR Oleoresinous	EVAPORATION RATE VS BUTYL ACETATE <input checked="" type="checkbox"/> SLOWER <input type="checkbox"/> FASTER	

SECTION V FIRE & EXPLOSION DATA

FLAMABILITY CLASSIFICATION OSHA: III-B DOT: Not Regulated	FLASH POINT 265 °F METHOD COC	LEL Not Explosive
---	-------------------------------------	----------------------

EXTINGUISHING METHOD

☒ FOAM ☐ ALCOHOL FOAM ☒ CO₂ ☒ DRY CHEMICAL ☒ WATER FOG ☐ OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

1. Isolate containers from heat and other sources of ignition
2. Dense smoke may be generated when burning
3. Firefighters should be equipped with self-contained breathing apparatus and turnout gear

SPECIAL FIREFIGHTING PROCEDURES:

Keep container cool to prevent pressure build up due to extreme heat.

SECTION VI HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: ☐ INHALATION ☒ SKIN ☐ INGESTION

EFFECTS OF OVEREXPOSURE:

1. Prolonged contact may cause skin irritation
2. Eye contact may cause irritation
3. Excessive inhalation of vapors or mists may cause local irritation, pneumonia or central nervous system depression

CARCINOGENICITY: NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

EMERGENCY FIRST AID PROCEDURES:

1. SKIN CONTACT:

Wash affected area with soap and water

2. EYE CONTACT:

1. Flush eyes with copious amounts of water for at least fifteen minutes
2. Consult physician if irritation develops

3. INGESTION:

DO NOT INDUCE VOMITING!
Dilute with 1-2 glasses of water
Consult a physician

SECTION VII REACTIVITY DATA

PRODUCT STABILITY ☒ STABLE ☐ UNSTABLE HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID: Strong Oxidizers

SECTION VIII SPILL OR LEAK PROCEDURES

PROCEDURES WHEN MATERIAL IS SPILLED OR RELEASED:

1. Remove all sources of ignition
2. Wipe up or shovel material into an approved container
3. Wash spill area with soap and water

WASTE DISPOSAL METHODS:

Dispose of in accordance with local, state and federal regulations

SECTION IX PERSONAL PROTECTION INFORMATION

VENTILATION: Normal fresh air is usually sufficient. In confined areas provide one cubic foot per minute per square foot of area.

PROTECTIVE GLOVES: Recommended

RESPIRATORY EQUIPMENT: Not needed if good ventilation is maintained

EYE PROTECTION: Splash goggles are recommended during wash-up

OTHER EQUIPMENT: None

SECTION X SPECIAL PRECAUTIONS

HANDLING AND STORAGE:

A moderately cool, well ventilated area is adequate
Labels should be visible

SECTION XI SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CHEMICAL NAME	CAS NO.	% BY WEIGHT
Cobalt Compounds	7440-48-4	2.0
Manganese Compounds	7439-96-5	2.0

NOTE: THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.

*PANTONE INC.'s CHECK STANDARD TRADEMARK FOR COLOR REPRODUCTION AND COLOR REPRODUCTION MATERIALS.

**FAX**

816-842-7525

2100 Wyandotte
Kansas City, MO
6 4 1 0 8**Facsimile Transmission Cover Sheet**Date 7.12.00Number of Pages 3To: Alma Moreno LammCompany: EPA REGION VIIFax Number: 913 551 - 2752From: HAUK ROSEBROUGH

If you did not receive all the pages, please call us at
816-842-4669

Remarks/Instructions: _____

ALMA,THIS SHOULD FINISH ANY QUESTIONSON OUR "LIST OF STUFF FOR ALMA" IF ANYADDITIONAL INFO IS NEEDED PLEASE CALL.

Thank You.

Our Goal Is Delighted Customers!

ATTACHMENT 13 Page 1 of 3ATTACHMENT Page 1 of 3

ALMA,

ATTACHED IS A COPY OF OUR SILVER RECOVERY STUFF.

OUR WASTE STREAMS ARE DEALT WITH EITHER FUEL BLEND OR LAND FILL. MOSTLY FUEL BLEND BECAUSE OF THE HIGH BTU VALUE.

AFTER OUR MEETING WITH MIE-MO THE TERM "WATER BASED COOLANT / AQUEAS COATING" HAS BEEN CHANGED TO READ AQUEAS COATING ONLY. THIS WILL BE REFLECTED ON CODE # C3066-06

THE CODES C3066-01 & C3066-07 WERE FOR IDENTICAL ITEMS. WE HAVE DISCUSSED WITH MIE-MO THE DISCONTINUING USE OF C3066-07.

GIRARD COMPLETE SILVER RECOVERY

PRECIOUS METAL BUYERS • 3744 N.E. Woodland Court • Lee's Summit, MO 64064 • (816) 350-3771

Frank Girard

C/o Rosse Lithographing
2100 Wyandotte
Kansas City, Mo.

July 11, 2000
Girard Silver Recovery
10501 E. Bannister Rd
Kansas City, Mo. 64134

Attn: Mike Smalley

Dear Mike,

Concerning the information you requested about the silver waste product and how the product is handled. The filon and silver flake will be sent to Central State Refiners, in Versailles, Mo.

My contact person at Central State Refiners is Glenn. I'm sorry, but I don't know the last name. The telephone number is 1-573-378-5772.

If you have other questions or if I can be of any help, please feel free to contact me.

Sincerely,

MATERIAL SAFETY DATA SHEET

THOMPSON CHEMICALS & SOLVENTS

P. O. Box 7167
St. Joseph, MO 64507

~~(816)~~ 991-2426 KC Direct Line
(816) 279-2110

*** 24-Hour Emergency Telephone: 1-800-424-9300 ***

Prepared: 02/24/99

Page 1

#04855 BLANKET WASH

Same as VWI Wash by Vorh
Products

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: Cleaning Solvent, Proprietary

HMIS Information: Health - 1 Flammability - 2 Reactivity - 0 Personal Protective Equipment - B

4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Least B = Safety Glasses & Gloves

SECTION II - COMPONENTS

If present, IARC, NTP and OSHA Carcinogens and Chemicals Subject To The Reporting Requirements of SARA Title III Section 313 Are Identified In This Section.

Ingredient	Percent	PEL	TLV	NOTE
Aromatic Petroleum Distillates <i>Flush</i>	> 9	100 PPM	Not Established	
CAS #: 64742-95-6				
Aliphatic Hydrocarbons <i>105-90°F</i>	> 9	300 PPM	300 PPM	
CAS #: 64742-48-9				

THOMPSON CHEMICALS & SOLVENTS

Continued on Page 2

MATERIAL SAFETY DATA SHEET

24-Hour Emergency Telephone 1-800-424-9300

#04855 BLANKET WASH

Page 2

SECTION III - PHYSICAL DATA

Boiling Point	for Product	308.00 - 335.00 Deg F
	(153.33 - 168.33 Deg C)
	@	760.00 mm Hg
Vapor Pressure	for Product	3.00 mm Hg
	@	68.00 Deg F
	(20.00 Deg C)
Specific Vapor Density	Air = 1	4.15
Specific Gravity		.876
	@	60.00 Deg F
	(15.55 Deg C)
Percent Volatiles		100.00%
Evaporation Rate	(Ether = 1)	25.00
Appearance		Clear, Saybolt Color 21 Min
State		Liquid
Form		Neat

SECTION IV - FIRE AND EXPLOSION INFORMATION

Flash Point (TCC) 100.0 - 120.0 Deg F (37.8 - 48.9 Deg C)

Explosive Limit (Product) Lower - 1.0% Upper - 7.0%

Extinguishing Media: Regular Foam or Carbon Dioxide or Dry Chemical

Hazardous Decomposition Products: May form toxic materials: Carbon Dioxide and Carbon Monoxide, various Hydrocarbons, etc.

Firefighting Procedures: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Special Fire & Explosion Hazards: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

THOMPSON CHEMICALS & SOLVENTS

Continued on Page 3

MATERIAL SAFETY DATA SHEET

*** 24-Hour Emergency Telephone 1-800-424-9300 ***

#04855 BLANKET WASH

Page 3

SECTION V - HEALTH HAZARD DATA

Permissible Exposure Level 100 PPM

See Section II

Effects of Acute Overexposure:

Eyes - Exposure may cause mild eye irritation. Symptoms may include stinging, tearing and redness.

Skin - Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, skin burns, and skin damage. Pre-existing skin disorders may be aggravated by exposure to this material.

Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Breathing - Exposure to vapor or mist is possible.

Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful.

Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include:

- Irritation (nose, throat, respiratory tract) - Pre-existing lung disorders, e.g. asthma-like conditions, may be aggravated by exposure to this material.
- Respiratory depression -
- Central Nervous System depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) -

Swallowing - Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.

Symptoms may include:

- Gastrointestinal irritation (nausea, vomiting, diarrhea) -
- Respiratory depression -
- Central Nervous System depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) -

This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

First Aid:

If on Skin: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

If in Eyes: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

If Swallowed: Do not induce vomiting. This material is an aspiration hazard. If individual is drowsy or unconscious, place on left side with the head down. Seek medical attention. If possible, do not leave individual unattended.

If Breathed: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention. Keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

MATERIAL SAFETY DATA SHEET

*** 24-Hour Emergency Telephone 1-800-424-9300 ***

#04855 BLANKET WASH

Page 4

SECTION V - HEALTH HAZARD DATA (CONTINUED)

Primary Route(s) of Entry:

Inhalation, skin contact, eye contact

Effects Of Chronic Overexposure:

This material (or a component) has been shown to cause to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Based on the available information, this material cannot be classified with regard to carcinogenicity.

This material is not listed as a carcinogen by IARC, NTP or OSHA.

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals and may aggravate pre-existing disorders of these organs in humans: Mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities, cataracts.

SECTION VI - REACTIVITY DATA

Hazardous Polymerization: Cannot occur

Stability: Stable

Incompatibility: Avoid contact with: Strong oxidizing agents

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Small Spill: Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Prevent run-off to sewers, streams or bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

MATERIAL SAFETY DATA SHEET

*** 24-Hour Emergency Telephone 1-800-424-9300 ***

#04855 BLANKET WASH

Page 5

SECTION VII - SPILL OR LEAK PROCEDURES (CONTINUED)

Waste Disposal Method:

Small Spill: Dispose of in accordance with all Local, State and Federal regulations.

Large Spill: Dispose of in accordance with all applicable Local, State and Federal regulations.

SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see Section II), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(S).

Protective Gloves: Wear resistant gloves (consult your safety equipment supplier).

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised, however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Other Protective Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this datasheet must be observed.

WARNING!!! Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure or sudden ingress of air into vacuum equipment may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids.

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Thompson Chemicals & Solvents knowledge, or obtained from sources believed by Thompson Chemicals & Solvents to be accurate, and Thompson Chemicals & Solvents does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label.

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 1/01/98

PAGE: 1

ANCHOR LITHKEMKO
50 INDUSTRIAL LOOP NORTH
ORANGE PARK, FL 32073

On Rags
Plate making waste, on rags
only. Used to
wipe off dirt
from plates.

MEDICAL EMERGENCY PHONE NUMBER * (904) 264-3500 * THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS.

TRANSPORTATION EMERGENCY PHONE NUMBER * (800) 424-9300 * CHEMTREC.

THIS MSDS COMPLIES WITH 29 CFR 1910.1200, HAZARD COMMUNICATION STANDARD. FEDERAL LAW REQUIRES PERSONS RECEIVING THE MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY, BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCT INVOLVED. IN THE INTEREST OF SAFETY YOU SHOULD: (1) NOTIFY YOUR EMPLOYEES, AGENTS, AND CONTRACTORS OF THE INFORMATION ON THIS SHEET; (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THE PRODUCT; AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES AND CUSTOMERS AS WELL.

FOR INDUSTRIAL USE ONLY USE ONLY AS DIRECTED DO NOT TAKE INTERNALLY

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: FILM KLEEN

PRODUCT NUMBER: 7065

DOT PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (HEXANE, ISOPROPANOL)
PACKING GROUP II

DOT NUMBER: 18N1993

DATE OF LAST MSDS SHIPMENT: N/A

MSDS PREPARED BY: L.H. ANDERSON

HMIS INFORMATION: HEALTH - 2 FLAMMABILITY - 3
 REACTIVITY - 0 PERSONAL PROTECTIVE EQUIPMENT - 8

HAZARD INDEX: 4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT 0 = LEAST
SAFETY GLASSES & GLOVES

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION	CAS#	% BY WT.	ACGIH TLV(TWA) PPM	OSHA PEL PPM	OTHER LIMITS
HEXANE	/110-54-3	/ 87.22	/ 50.00/	50.00/	/(PEL IS TWA) /STEL = 1000 PPM
	/	/	/	/	
	/	/	/	/	
ISOPROPYL ALCOHOL (SYN.: IPA, ISOPROPANOL)/	/67-63-0	/ 5-15	/ 400.00/	400.00/	/

la. gal = 5.7 lbs/gal x 21 gals used = 119.70 Voc used

FILM KLEEN

THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR SUSPECTED CARCINOGENS
WHICH ARE NOTED BY NTP, IARC OR OSHA-2 IN THE OTHER LIMITS COLUMN.

SECTION III PHYSICAL DATA

BOILING RANGE: HIGH- 180.0 F LOW- 149.0 F
VAPOR PRESSURE: 127.40 MMHG @ 68 F
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: FASTER THAN BUTYL ACETATE
WEIGHT LBS./GAL.: 5.7
METHOD 24 VOC: 5.7 LBS./GAL.
PHYSICAL STATE: LIQUID
APPEARANCE: CLEAR, COLORLESS
ODOR: SOLVENT
PH: N/A
WATER SOLUBILITY: OZ
CALIFORNIA SCAQMD RULE 102: NONPHOTOCHEMICALLY REACTIVE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: CLASS IB DOT: FLAMMABLE LIQUID
ACTUAL FLASHPOINT TCC: 10.0 F.

EXTINGUISHING MEDIA: USE WATER SPRAY, FOAM, CO2, OR DRY CHEMICAL FIRE
FIGHTING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP WORK AREAS FREE OF HOT METAL
SURFACES AND OTHER SOURCES OF IGNITION.

FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATH-
ING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY
CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

FILM KLEEN

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: GENTLY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND SEEK MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING (WASH BEFORE RE-USE), WASH AFFECTED SKIN AREAS WITH SOAP AND WATER, AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: IF BREATHING DIFFICULTIES, DIZZINESS OR LIGHT-HEADEDNESS OCCUR WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATIONS, VICTIM SHOULD SEEK FRESH AIR. IF BREATHING STOPS, GIVE ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING; SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION VI HEALTH INFORMATION, ACUTE AND CHRONIC

EYES: DIRECT CONTACT WILL CAUSE BURNING, TEARING AND REDNESS.

SKIN EFFECTS: PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, AND/OR DERMATITIS.

INHALATION: PROLONGED OR REPEATED BREATHING OF VERY HIGH VAPOR CONCENTRATIONS MAY CAUSE HEADACHES, NAUSEA AND VOMITING. CHRONIC OVEREXPOSURE IN HIGH CONCENTRATIONS MAY PRODUCE CNS DEPRESSION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN.

PRIMARY ROUTES OF ENTRY: INHALATION.

SYSTEMIC AND OTHER EFFECTS: CHRONIC OVEREXPOSURE TO HEXANE HAS BEEN FOUND TO CAUSE PERIPHERAL NERVE TISSUE DAMAGE RESULTING IN MUSCULAR WEAKNESS AND LOSS OF SENSATION IN THE EXTREMITIES. CHRONIC OVEREXPOSURE TO IPA HAS CAUSED LIVER ABNORMALITIES, AND KIDNEY AND BRAIN DAMAGE IN LABORATORY ANIMALS.

FILM KLEEN

SECTION VII REACTIVITY DATA

STABILITY: STABLE.

CONDITIONS TO AVOID: EXTREME HEAT, SPARKS AND OPEN FLAMES.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS, STRONG ACIDS OR BASES.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. CONDITIONS TO AVOID: NA

SECTION VIII SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: STAY UPWIND AND AWAY FROM SPILL UNLESS WEARING APPROPRIATE PROTECTIVE EQUIPMENT. STOP AND/OR CONTAIN DISCHARGE IF IT MAY BE DONE SAFELY. KEEP ALL SOURCES OF IGNITION AWAY; USE NON-SPARKING TOOLS FOR CLEANUP. VENTILATE AREA OF SPILL AND COVER WITH INERT MATERIAL TO REDUCE FUMES. KEEP OUT OF DRAINS, SEWERS OR WATERWAYS. CONTACT FIRE AUTHORITIES, NOTIFY LOCAL HEALTH AND POLLUTION CONTROL AGENCIES, AND CALL SPILL RESPONSE TEAMS IF LARGE SPILL.

WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE, FEDERAL REGULATIONS.

SECTION IX PERSONAL PROTECTION AND STORAGE PRECAUTIONS

RESPIRATORY PROTECTION: THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATIONS ABOVE THE TIME-WEIGHTED TLV. USE A RESPIRATOR/GAS MASK WITH APPROPRIATE CARTRIDGES OR CANISTER (NIOSH APPROVED, IF AVAILABLE), OR SUPPLIED AIR EQUIPMENT, DEPENDING ON AIRBORNE CONCENTRATION.

PROTECTIVE GLOVES: THE USE OF GLOVES WHICH ARE IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT IRRITATION.

EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER PROTECTIVE EQUIPMENT: THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

HANDLING AND STORAGE PRECAUTIONS: KEEP PRODUCT CONTAINERS COOL, DRY AND AWAY FROM SOURCES OF IGNITION. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. KEEP PRODUCT CONTAINERS CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, MAY RETAIN PRODUCT RESIDUES AND/OR VAPORS. OBSERVE ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW PLACES.

MATERIAL SAFETY DATA SHEET

PAGE 5

FILM KLEEN

SECTION X SECTION 313 TOXIC CHEMICALS

FOLLOWING IS A DESCRIPTION OF CERTAIN HYDROCARBON SOLVENTS WHICH CONTAIN COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 - 40 CFR 372 (CHECK SECTION II INGREDIENTS AND LIST BELOW TO DETERMINE IF ANY OF THESE APPLY TO THIS PRODUCT):

AROMATIC 100 MAY CONTAIN UP TO 7% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 21% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 3% BY WEIGHT CUMENE (CAS#98-82-8).

AROMATIC 150 MAY CONTAIN UP TO 2% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6) AND UP TO 10% BY WEIGHT NAPHTHALENE (CAS#91-20-3).

SOLVENT D MAY CONTAIN UP TO 3.5% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 1% BY WEIGHT NAPHTHALENE (CAS#91-20-3), 15.4% TO 18.9% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 2.6% BY WEIGHT CUMENE (CAS#98-82-8).

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS AND/OR HYDROCARBON SOLVENTS WITH COMPONENTS WHICH ARE SUBJECT TO SARA 313 REQUIREMENTS:

HEXANE

110-54-3

87.22

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN THE MANUFACTURER AND ITS SUPPLIERS. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF THE MANUFACTURER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

SPECIAL CALIFORNIA PROPOSITION 65 WARNINGS

THE FOLLOWING INFORMATION IS REQUIRED BY THE STATE OF CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986, OR PROPOSITION 65. THIS CALIFORNIA REGULATION DOES NOT ADDRESS DI MINIMUS LEVELS; THEREFORE, EVEN TRACE AMOUNTS OF THE CHEMICALS INCLUDED ON PROPOSITION 65'S LIST OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY MUST BE NOTED WITH THE "SAFE HARBOR" WORDING. WARNING: IF THIS PRODUCT CONTAINS AROMATIC 100 OR LACOLENE—CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS—THESE CHEMICALS CONTAIN BOTH BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND TOLUENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF THIS PRODUCT CONTAINS VM&P NAPHTHA—CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS—VM&P NAPHTHA CONTAINS BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

ATTACHMENT 1/02-00-10-558

MATERIAL SAFETY DATA SHEET

Roller cleaner
Gels on the rag only.

PRODUCT NAME: COLOR WASH STEP-1
PRODUCT CODE: B010031

HMIS CODES: H F R P
1 2 0 X

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: VARN PRODUCTS
ADDRESS: 905 SOUTH WESTWOOD, ADDISON, ILLINOIS 60101
EMERGENCY PHONE: (800) 424-9300 INFORMATION PHONE: (800) 336-8276
DATE REVISED : 09-04-96 NAME OF PREPARER : VARN PRODUCTS CO.
REASON REVISED : UPDATE; SUPERSEDES ALL PREVIOUS REVISIONS.

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

HAZARDOUS COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE mm Hg @ 20°C	WEIGHT PERCENT
	CAS NUMBER	OSHA PEL	ACGIH TLV	OTHER		
PETROLEUM NAPHTHA	64742-47-8	100 ppm	100 ppm	100 ppm	0.5 68°F	60 60
PETROLEUM NAPHTHA	64742-94-5	N/E	N/E	100 ppm	0.9 68°F	10 10

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. *** 70% total
ALL INGREDIENTS LISTED IN THE EPA TSCA INVENTORY.

$la\ gal = 4.96\ VOC \times gal\ used\ (60\ gal) = 297.6\ VOC\ used$

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 368 to 386 Deg F SPECIFIC GRAVITY (H2O=1): 0.9
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
MATERIAL V.O.C.: 4.96 LB/GL (595 G/L)
SOLUBILITY IN WATER: EMULSIBLE VAPOR PRESSURE: 0.20 mmHg @20 Deg C
APPEARANCE AND ODOR: LIGHT STRAW COLOR, VISCOUS LIQUID - MILD PETROLEUM ODOR

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 200 Deg F METHOD USED: TAG CC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0% UPPER: 11.7%

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (MSEA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR. WATER MAY NOT BE EFFECTIVE TO EXTINGUISH FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS

TREAT AS PETROLEUM FIRE.

SECTION V - REACTIVITY DATA

**STABILITY: STABLE
CONDITIONS TO AVOID**

AVOID EXCESS HEAT AND SOURCES OF IGNITION.

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID MIXING WITH STRONG OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

BURNING WILL PRODUCE OXIDES OF CARBON AND DENSE SMOKE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE NOSE, THROAT, AND LUNGS. SIGNS OF NERVOUS SYSTEM DEPRESSION SUCH AS DIZZINESS, DROWSINESS, HEADACHE AND NAUSEA MAY BE EXPERIENCED WITH OVEREXPOSURE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN AND EYE CONTACT MAY PRODUCE MODERATE IRRITATION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

A SINGLE, PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION MAY PRODUCE GASTRO-INTESTINAL IRRITATION. FOLLOW FIRST AID PROCEDURES.

HEALTH HAZARDS (ACUTE AND CHRONIC)

REPEATED OR ABUSIVE BREATHING OF CONCENTRATED VAPORS MAY AFFECT PULMONARY, CARDIOVASCULAR, AND CENTRAL NERVOUS SYSTEM.

REPEATED SKIN CONTACT WILL DRY OUT AND CRACK SKIN. ASPIRATION HAZARD IF SWALLOWED; ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

THIS PRODUCT CONTAINS NO KNOWN CARCINOGENS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

SKIN CONTACT MAY AGGRAVATE PRE-EXISTING DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES

EYES: HOLD EYELIDS OPEN AND FLUSH WITH WATER FOR 15 MINUTES. CONTACT A PHYSICIAN IF IRRITATION PERSISTS.

SKIN: WASH WITH SOAP AND WATER.

INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW KIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. SEEK MEDICAL ATTENTION IMMEDIATELY.

INHALATION: MOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS LABORED.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

ELIMINATE ALL IGNITION SOURCES. CLEAN UP SMALL SPILLS WITH SOAP, WATER, AND A MOP. LARGE SPILLS SHOULD BE Diked AND KEPT FROM ENTERING THE SEWER. SOAK UP WITH ABSORBENT OR TRANSFER LIQUID INTO A CLOSED CONTAINER FOR LATER DISPOSAL.

WASTE DISPOSAL METHOD

IF THIS PRODUCT, AS SUPPLIED, BECOMES A WASTE IT IS TO BE TREATED AS A HAZARDOUS WASTE. WASTE HANDLING AND DISPOSAL INCLUDE RECLAMATION AND FUEL BLENDING. CONTACT A LICENSED HAZARDOUS WASTE HANDLER FOR MORE INFORMATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

CONTAINERS SHOULD BE GROUNDING BEFORE TRANSFERRING THIS PRODUCT. STORE IN THE ORIGINAL CLOSED CONTAINER AWAY FROM SUNLIGHT, EXCESS HEAT, SPARKS, FLAMES AND OTHER SOURCES OF IGNITION. AVOID SKIN CONTACT. AVOID BREATHING VAPORS. WHEN TRANSFERRING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

OTHER PRECAUTIONS

DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID N.O.S. (NAPHTHA), HAZARD CLASS: COMBUSTIBLE LIQUID, UN NUMBER: NA1993,

PACKING GROUP: III

PRODUCT IS CLASSIFIED AS AN OSHA CLASS II COMBUSTIBLE LIQUID.

SECTION VIII - CONTROL MEASURES**RESPIRATORY PROTECTION**

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS IN SECTION II. DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR WITH APPROPRIATE ORGANIC VAPOR CARTRIDGES (NIOSH APPROVED).

VENTILATION

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS IN SECTION II, ADDITIONAL GENERAL VENTILATION OR LOCAL EXHAUST SYSTEM IS REQUIRED.

PROTECTIVE GLOVES

WEAR SOLVENT RESISTANT GLOVES MADE OF NITRILE OR BUTYL RUBBER.

EYE PROTECTION

WEAR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

A PERSONAL PROTECTIVE RATING OF X MEANS YOU MUST SEE YOUR SUPERVISOR FOR GUIDANCE. OSHA REGULATIONS (29CFR PART 1910, SUBPART I) REQUIRE EMPLOYERS TO EVALUATE PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS IN THE WORKPLACE.

WORK/HYGIENIC PRACTICES

WASH WITH SOAP AND WATER AFTER PRODUCT CONTACT WITH SKIN.

SECTION IX - DISCLAIMER**DISCLAIMER**

THE INFORMATION ON THIS MSDS IS BELIEVED TO BE ACCURATE AS OF THE DATE SHOWN IN SECTION I. SINCE THE USE OF THIS PRODUCT IS NOT UNDER THE CONTROL OF VAM, IT IS THE USER'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE USAGE FOR A PARTICULAR PRODUCT. THIS FORM MAY BE REPRODUCED IN QUANTITIES NECESSARY TO MEET YOUR REQUIREMENTS.

**MATERIAL SAFETY
DATA SHEET**



ASHLAND CHEMICAL, INC.

Subsidiary Of Ashland Oil, Inc.
P.O. BOX 2219
COLUMBUS, OHIO 43216
(614) 889-3333

24-HOUR #57
Emergency
Telephone
1(800) 274-5263 or
1(800) ASHLAND

(614) 790-3333 new #

001757

LACOLENE SUPER

Page:

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

On Range only

Product Name: LACOLENE SUPER
CAS NUMBER: 64742-89-8

ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

05 50 015 7638600-

Data Sheet No: 0000597-004.000
Prepared: 09/28/94
Supersedes: 05/06/94
Print Date: 01/14/95

PRODUCT: 3002860
INVOICE: 080806
INVOICE DATE: 01/06/95
TO: ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

ATTN: PLANT MGR./SAFETY DIR.

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: ALIPHATIC HYDROCARBON

DOT Hazard Classification: 3 (FLAMMABLE LIQUID)

SECTION II - COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	Percent	PEL	TLV	Note
ALIPHATIC PETROLEUM DISTILLATES CAS #: 64742-89-8	100	400 PPM		(1)

Notes:

(1) NIOSH RECOMMENDS A LIMIT OF 350 MG/CUM - 8 HOUR TIME WEIGHTED AVERAGE, 1800 MG/CUM AS DETERMINED BY A 15 MINUTE SAMPLE.

TLV NOT ESTABLISHED FOR THIS MATERIAL. *FOOS*

THIS MATERIAL MAY CONTAIN UP TO 20% TOLUENE, CAS #108-88-3, WHICH HAS A TLV OF 50 PPM - SKIN, AND A PEL OF 100 PPM, STEL OF 150 PPM. 2.8% CYCLOHEXANE, CAS# 110-82-7, MAY ALSO BE PRESENT. THE PEL/TLV FOR CYCLOHEXANE IS 300 PPM. TOLUENE AND CYCLOHEXANE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

Boiling Point	for PRODUCT	185.00 Deg F (85.00 Deg C) @ 760.00 mm Hg
Vapor Pressure	for PRODUCT	38.00 mm Hg @ (68.00 Deg F 20.00 Deg C)
Specific Vapor Density	AIR = 1	3.65
Specific Gravity		.752 @ (60.00 Deg F 15.55 Deg C)
Percent Volatiles		100.00%
Evaporation Rate	(ETHER = 1)	3.50

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT(TCC) 18.0 Deg F Ignitable (-7.8 Deg C)
EXPLOSIVE LIMIT (PRODUCT) LOWER - 1.2% UPPER - 7.0%
EXTINGUISHING MEDIA: REGULAR FOAM OR CARBON DIOXIDE OR DRY CHEMICAL
HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.
FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.
SPECIAL FIRE & EXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.
ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.
MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS WHICH MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL 400 PPM

NOT ESTABLISHED FOR PRODUCT. SEE SECTION II.

CONTINUED ON PAGE: 2

ATTACHMENT / 4 Page / 4 of 4

*Barn Hook
Customer
specification
Generally reqs to
put mat
of
15-20%
The minimum
17-18%
Do have
Customer
requests
for a
min. num.
15-20
Custom
design
blend.
Rose
used
blend.*

MATERIAL SAFETY
DATA SHEET



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001757

LACOLENE SUPER

Page: 2

SECTION V-HEALTH HAZARD DATA (Continued)

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - EXPOSURE CAUSES EYE IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, AND SWELLING.
SKIN - EXPOSURE MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY DRY THE SKIN. SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING AND CRACKING, AND SKIN BURNS. PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.
SKIN ABSORPTION IS POSSIBLE, BUT HARMFUL EFFECTS ARE NOT EXPECTED FROM THIS ROUTE OF EXPOSURE UNDER NORMAL CONDITIONS OF HANDLING AND USE.
BREATHING - EXPOSURE TO VAPOR OR MIST IS POSSIBLE.
SHORT-TERM INHALATION TOXICITY IS LOW. BREATHING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; BREATHING LARGE AMOUNTS MAY BE HARMFUL.
SYMPTOMS ARE MORE TYPICALLY SEEN AT AIR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LIMITS. SYMPTOMS OF EXPOSURE MAY INCLUDE:
-IRRITATION (NOSE, THROAT, RESPIRATORY TRACT)- PRE-EXISTING LUNG DISORDERS, E.G. ASTHMA-LIKE CONDITIONS, MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.
-METALLIC TASTE-
-MUSCLE WEAKNESS-
-INITIAL CENTRAL NERVOUS SYSTEM (CNS) EXCITATION (EUPHORIA, EXHILARATION, LIGHT-HEADEDNESS) FOLLOWED BY CNS DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS) AND OTHER CNS EFFECTS-
-CONFUSION-
-IMPAIRED COORDINATION-
-COMA-
-AND DEATH

SWALLOWING - SINGLE DOSE ORAL TOXICITY IS LOW. SWALLOWING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; SWALLOWING LARGE AMOUNTS MAY BE HARMFUL.

SYMPTOMS MAY INCLUDE:
-GASTROINTESTINAL IRRITATION (NAUSEA, VOMITING, DIARRHEA)-
-CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS)-

THIS MATERIAL CAN ENTER THE LUNGS DURING SWALLOWING OR VOMITING AND CAUSE LUNG INFLAMMATION AND/OR DAMAGE.

FIRST AID:

IF ON SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE.

IF IN EYES: IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES GENTLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. IF SYMPTOMS PERSIST OR THERE IS ANY VISUAL DIFFICULTY, SEEK MEDICAL ATTENTION.

IF SWALLOWED: DO NOT INDUCE VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARD. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, PLACE ON LEFT SIDE WITH THE HEAD DOWN. SEEK MEDICAL ATTENTION. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

IF BREATHED: IF SYMPTOMS DEVELOP, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. SEEK IMMEDIATE MEDICAL ATTENTION; KEEP PERSON WARM AND QUIET. IF PERSON IS NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN.

NOTE TO PHYSICIAN:

INHALATION OF HIGH CONCENTRATIONS OF THIS MATERIAL, AS COULD OCCUR IN ENCLOSED SPACES OR DURING DELIBERATE ABUSE, MAY BE ASSOCIATED WITH CARDIAC ARRHYTHMIAS. SYMPATHOMIMETIC DRUGS MAY INITIATE CARDIAC ARRHYTHMIAS IN PERSONS EXPOSED TO THIS MATERIAL.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN CONTACT, EYE CONTACT, SKIN ABSORPTION

EFFECTS OF CHRONIC OVEREXPOSURE:

PROLONGED INTENTIONAL ABUSE MAY LEAD TO BRAIN DAMAGE CHARACTERIZED BY DISTURBANCES IN GAIT, PERSONALITY CHANGES AND LOSS OF MEMORY. COMPARABLE CENTRAL NERVOUS SYSTEM EFFECTS HAVE NOT BEEN SHOWN TO RESULT FROM OCCUPATIONAL EXPOSURE TO TOLUENE.

TOLUENE MAY BE HARMFUL TO THE HUMAN FETUS BASED ON POSITIVE TEST RESULTS WITH LABORATORY ANIMALS. CASE STUDIES REVEAL THAT PROLONGED INTENTIONAL ABUSE OF TOLUENE DURING PREGNANCY MAY CAUSE BIRTH DEFECTS IN HUMANS.

BASED ON THE AVAILABLE INFORMATION, THIS MATERIAL CANNOT BE CLASSIFIED WITH REGARD TO CARCINOGENICITY.

THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN LABORATORY ANIMALS, AND MAY AGGRAVATE PRE-EXISTING DISORDERS OF THESE ORGANS IN HUMANS:., CENTRAL NERVOUS SYSTEM DAMAGE, EFFECTS ON HEARING, MILD, REVERSIBLE LIVER EFFECTS, CARDIAC SENSITIZATION, RESPIRATORY TRACT DAMAGE

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS, AND MAY AGGRAVATE PRE-EXISTING DISORDERS OF THESE ORGANS:., KIDNEY DAMAGE, CARDIAC SENSITIZATION

SECTION VI-REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH:., STRONG OXIDIZING AGENTS, STRONG ACIDS

CONTINUED ON PAGE: 3

ATTACHMENT 14 Page 15 of 48

MATERIAL SAFETY
DATA SHEET



ASHLAND CHEMICAL, INC.

Subsidiary Of Ashland Oil, Inc.

P.O. BOX 2219

COLUMBUS, OHIO 43216

(614) 889-3333

24-HOUR
Emergency
Telephone

1 (800) 274-5263 or

1 (800) ASHLAND

001757

LACOLENE SUPER

Page: 3

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. PREVENT FROM SPREADING. IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR DISPOSAL.

PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURED.

WASTE DISPOSAL METHOD:

SMALL SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE SECTION II), A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR INDUSTRIAL HYGIENIST). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. CONSULT YOUR SAFETY REPRESENTATIVE.

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

WARNING!!! SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES. PUBLISHED "AUTOIGNITION" OR "IGNITION" TEMPERATURE VALUES CANNOT BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESSES WITHOUT ANALYSIS OF THE ACTUAL PROCESS CONDITIONS. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

HYDROCARBON SOLVENTS ARE BASICALLY NON-CONDUCTORS OF ELECTRICITY AND CAN BECOME ELECTROSTATICALLY CHARGED DURING MIXING, FILTERING OR PUMPING AT HIGH FLOW RATES. IF THIS CHARGE REACHES A SUFFICIENTLY HIGH LEVEL, SPARKS CAN FORM THAT MAY IGNITE THE VAPORS OF FLAMMABLE LIQUIDS.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

**MATERIAL SAFETY
DATA SHEET**



ASHLAND CHEMICAL, INC.

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P.O. BOX 2219
COLUMBUS, OHIO 43216
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DEFINITIONS

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Chemical Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

SECTION I

PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: Chemical family or product description.

DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

SECTION II
COMPONENTS

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC, or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELS) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

SECTION III
PHYSICAL DATA

BOILING POINT: Of product if known. The lowest value of the components is listed for mixtures.

VAPOR PRESSURE: Of product if known. The highest value of the components is listed for mixtures.

SPECIFIC VAPOR DENSITY: Compared to AIR = 1. If the Specific Vapor Density of a product is not known, the value is expressed as lighter or greater than air.

SPECIFIC GRAVITY: Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

pH: If applicable.

PERCENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit and vapor pressure above 0.1mm Hg at 68 F.

EVAPORATION RATE: Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

SECTION IV
FIRE AND EXPLOSION DATA

FLASH POINT: Method identified.

EXPLOSION LIMITS: For product if known. The lowset value of the components is listed for mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS: Known or expected hazardous products resulting from heating, burning or other reactions.

SECTION IV (cont.)

EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.

FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

SPECIAL FIRE AND EXPLOSION HAZARDS: States hazards not covered by other sections.

NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

SECTION V
HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: For product.

THRESHOLD LIMIT VALUE: For product.

EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

FIRST AID: Procedures to be followed when dealing with accidental overexposure.

PRIMARY ROUTE OF ENTRY: Based on properties and expected use.

SECTION VI
REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.

INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

SECTION VII
SPILL OR LEAK PROCEDURES

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

SECTION VIII
PROTECTIVE EQUIPMENT TO BE USED

Protective equipment which may be needed when handling the product.

SECTION IX
SPECIAL PRECAUTIONS OR OTHER COMMENTS

Covers any relevant points not previously mentioned.

ADDITIONAL COMMENTS

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "EMPTY" drums should not be given to individuals. Serious accidents have resulted from the misuse of "EMPTIED" containers (drums, pails, etc.). Refer to Sections IV and IX.

ATTACHMENT 1 of 58

MATERIAL SAFETY DATA SHEET

39

Most of it used is this

TOYO INK MFG. CO., LTD.
INK DIVISION

3-13, Kyobashi, 2-chome, Chuo-ku, Tokyo, Japan
Phone No. 03-272-5721

HAZARD RATINGS
Minimal..... 0
Slight 1
Moderate 2
Serious 3
Severe 4

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

SECTION I

Date : June 27, 1991

PRODUCT NAME TK MARK V NEW Process Series	CHEMICAL NAME & SYNONYMS Compound
PRODUCT CLASS Printing Ink (Sheet-fed)	EMERGENCY PHONE NO. 617-762-7180

SECTION II - INGREDIENTS

MAIN INGREDIENTS				
	CAS No	%	(OSHA)	(ACGIH)
Pigment (As per attached sheet)	(Various)	11 - 25		
Rosin modified phenolic resin	(various)	25 - 35	NL	NL
Linseed oil polymerized	(67746-08-1)	15 - 25	NL	NL
White mineral oilsl	(8042-47-5)	12 - 21	NL	NL
Alkyl benzene	(123-01-3)	8 - 18	NL	NL
Additives	(various)	5>		
HAZARDOUS INGREDIENTS				
*C.I. Pigment Blue 15:3 (Cu 11%)	(147-14-8)	17	1.0 mg/m ³ (asCu)	1.0 mg/m ³ (asCu)
Carbon black	(1333-86-4)	18	3.5 mg/m ³	3.5 mg/m ³
-Section 313 Supplier Notification : This Product contains the above toxic chemicals (*marked) subject to the reporting requirement of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.				

SECTION III - PHYSICAL DATA

BOILING POINT NA	Volatile wt% As per attached sheet	SPECIFIC GRAVITY 1.0 - 1.1
VAPOR PRESSURE NA	MELTING POINT NA	
SOLUBILITY IN WATER Insoluble	APPEARANCE AND ODOR Colour Paste	

SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT 130 °C or greater	FLAMMABLE LIMITS NA
EXTINGUISHING MEDIA CO ₂ , Foam, Dry Powder	
SPECIAL FIRE FIGHTING PROCEDURE None	
UNUSUAL FIRE AND EXPLOSION HAZARD None	

NA = Not Applicable Attachment 14 Page 18 of 40 : Not Listed

SECTION V—REACTIVITY DATA

STABILITY	Stable	CONDITION TO AVOID	None
POLYMERIZATION	May occur very slowly	CONDITION TO AVOID	None
INCOMPATIBILITY (MATERIALS TO AVOID)		None	
HAZARDOUS DECOMPOSITION OR BY-PRODUCT		None	

SECTION VI—HEALTH HAZARD DATA

ROUTE OF ENTRY	INHALATION	SKIN	INGESTION
	—	<u>X</u>	<u>X</u>
HEALTH HAZARD			
Unknown			
SIGNS AND SYMPTOMS OF EXPOSURE			
Contact with eyes may result in irritation. Prolonged skin contact may cause minor skin irritation. Ingestion may result in gastric disturbances.			
CARCINOGENICITY	NTP	IARC	OSHA
	<u>No</u>	<u>No</u>	<u>No</u>
EMERGENCY AND FIRST AID			
EYE---Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.			
SKIN---Wash affected areas with soap and water.			
INGESTION---If swallowed immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.			

SECTION VII—PRECAUTIONS FOR SAFE HANDLING

STEPS TO BE TAKEN IN CASE MATERIALS ARE RELEASED OR SPILLED
Wipe up spilled materials with disposal towels.
WASTE DISPOSAL METHOD
Dispose in accordance with local, state and federal regulations.
PRECAUTIONS FOR HANDLING AND STORAGE
None

SECTION VIII—CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY)	None
VENTILATION	Recommended
PROTECTIVE GLOVES	Desirable
EYE PROTECTION	Desirable
OTHER PROTECTIVE EQUIPMENT	

INK NAME & V. O. C. VALUE

No	INK NAME	V.O.C. VALUE	
		g/ l	lb/gal
1	TK MARK V YELLOW	1 8 0	1. 5 0
2	TK MARK V MAGENTA	1 2 0	1. 0 0
3	TK MARK V CYAN	1 8 5	1. 5 4
4	TK MARK V BLACK	1 4 0	1. 1 7

What is in pigments?
Did not have info.
But testing done.

PIGMENT LIST

No	Pigment	CAS No.	OSHA	ACGIH	INK No.			
					1	2	3	4
1	C.I. Pigment Yellow 12	6358-85-6	NL	NL	O			
2	C.I. Pigment Red 57:1	5281-04-9	NL	NL		O		
3	C.I. Pigment Blue 15:3	147-14-8	1.0 mg/m ³	1.0 mg/m ³			O	O
4	C.I. Pigment Blue 61	1324-76-1	NL	NL				O
5	C.I. Pigment Black 7	1333-86-4	3.5 mg/m ³	3.5 mg/m ³				O

50% in
93% sulfuric
acid
Benzene sulfonic
acid

SUPPLIER : TOYO/DUPONT INTERNATIONAL INK
180 KERRY PLACE, NORWOOD, MA 02062, U.S.A.
Phone No. 617-762-7180

CALIFORNIA BRANCH
10870 TALBERT AVENUE FOUNTAIN VALLEY, CA 92703, U.S.A.
Phone No. 714-965-5133

CHICAGO BRANCH
2255 LOIS DRIVE ROLLING MEADOWS, ILL. 60008, U.S.A.
Phone No. 708-952-0303

(1)

On sponge

PLATE NU
PLATE CLEANER
MATERIAL SAFETY DATA SHEET

THIS MSDS IS BEING PROVIDED TO YOUR COMPANY TO PROVIDE CURRENT HEALTH AND SAFETY INFORMATION TO MANAGEMENT AND ITS EMPLOYEES WHO WORK WITH THIS PRODUCT. PLEASE READ THIS INFORMATION AND PROVIDE IT TO WHOMEVER IS RESPONSIBLE FOR COMPLYING WITH FEDERAL AND STATE RIGHT TO KNOW REGULATIONS. IT IS YOUR RESPONSIBILITY TO COMPLY WITH THIS ACT. Jan /97

SECTION I - PRODUCT INFORMATION

 Producer's Name: THE GRAFSOLVE COMPANY
 Address: NORTHBROOK, ILLINOIS 60065 - 1185
 Regular Phone Number: (847) 498-6300
 Emergency Phone Number: (847) 498-6300
 Chemical Name and Synonyms: PLATE NU PLATE CLEANER
 Chemical Family: SCRATCH REMOVER
 Trade Name and Synonyms: PLATE CLEANER & SCRATCH REMOVER

SECTION II - A HAZARDOUS COMPONENTS

NO.	COMPONENT	EPC #	% BY WT.
1.	SODIUM XYLENE SULFONATE	639	less than 11
2.	BUTOXYETHANOL	193	less than 11 2

VOLATILES: .43 lbs per Gal (Theoretical) lbs per Gal
 Wt: 9.1273 lbs per Gal

H = 2 F = 1 R = 0

SECTION III PHYSICAL DATA

 BOILING POINT: 212 Degrees F.
 EVAPORATION RATE: Less Than (1) (Ether=1)
 %Solid : N/A (Theoretical)
 VAPOR DENSITY: GREATER than (1) (Air=1)
 Wt per Gal : 9.1273 (Theoretical)

$1 \text{ gal} = .43 \times \text{gal used} (31 \text{ gal}) = 13.33 \text{ VOC used}$

Volatiles by Wt: .43 lbs per Gal (Theoretical)
VAPOR PRESSURE: N/A
(BOILING POINT=BOILING POINT OF LOWEST BOILING RAW MATERIAL)

SECTION IV HEALTH INFORMATION

EYE CONTACT: PRODUCT IS PRESUMED TO BE IRRITATING TO THE EYES
NOSE & THROAT /PRODUCT VAPORS MAY ALSO BE
IRRITATING . MAY CAUSE CORNEAL INJURY.

SKIN CONTACT: PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO
THE SKIN. PROLONGED CONTACT MAY RESULT IN DEFATTING AND DRYING OF
THE SKIN. DERMATITIS MAY RESULT.

INHALATION= EXPOSURE MAY PRODUCT IRRITATION TO THE NOSE, THROAT,
RESPIRATORY TRACT AND OTHER MUSCIOUS MEMBRANES. MUST HAVE WELL
VENTILATED AREAS. EXPOSURE OF HIGH CONCENTRATIONS MAY LEAD TO
NERVOUS SYSTEM DEPRESSION. SEE REFERENCE SOURCES.

SIGNS AND SYMPTOMS= SYMPTOMS OF EYE IRRITATION INCLUDE REDDENING
AND SWELLING. SYMPTOMS OF SKIN IRRITATION
INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF
RESPIRATORY IRRITATION INCLUDE RUNNY NOSE SORE THROAT,
COUGHING, GASTROINTESTINAL IRRITATION.

INGESTION: PRESUMED TO BE MODERATELY TOXIC. SEVERE LUNG DAMAGE
MAY RESULT FROM VOMITTING.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT= IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. SEEK PROMPT
MEDICAL ATTENTION.

SKIN CONTACT=REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS
FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK
MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING
UNTIL THOROUGHLY DECONTAMINATED.

INHALATION=REMOVE VICTIM TO FRESH AIR. SEEK PROMPT MEDICAL
ATTENTION.

INGESTION=DO NOT INDUCE VOMITTING. IF VOMITTING SPONTANEOUSLY
OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT
ASPIRATION INTO THE LUNGS.

SECTION VI FIRE AND EXPLOSION HAZARDS

FLASH POINT = 200 F. (TCC)

EXTINGUISHING MEDIA=USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON
DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS= COMBUSTIBLE.

CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS AND POSITIVE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS-

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINERS THAT ARE EXPOSED TO DIRECT FLAME SHOULD BE COOLED WITH WATER TO ELIMINATE STRUCTURAL WEAKENING OF THE CONTAINER'S WALL AND POSSIBLE RUPTURE.

SECTION VII REACTIVITY

STABILITY : STABLE HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS AND MATERIALS TO AVOID:

AVOID STRONG ACIDS, STRONG ALKALIES, OXIDIZING MATERIALS, AGENTS.

SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION-

VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS-

GENERAL ROOM VENTILATION. NOT ESTABLISHED FOR RESPIRATOR.

PROTECTIVE CLOTHING -

WEAR SAFETY GLASSES, GOGGLES OR A SPLASH SHIELD TO PREVENT EYE CONTACT. CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

ADDITIONAL PROTECTIVE MEASURES -

EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SECTION IX ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURE-

LARGE SPILLS, EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS WITH PROPER

0.

DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS. SMALL SPILLS>TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL-

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

SECTION X

ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS OR RESIDUES. DO NOT CUT, DRILL, GRIND OR WELD NEAR CONTAINERS

AFTER CONTACT WITH PRODUCT OR CONTAINER WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

UNDER THE PROVISIONS OF TITLE III, SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR, PART 372, THE FOLLOWING COMPONENTS MAY BE SUBJECT TO REPORTING:

=====

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

OCT 1996
Revised Jan '97



PETRO GUM®
GUM FOR LONG TERM STORAGE

MSDS ID: J9070-04A

H A Z A R D S	Health	1
	Fire	2
	Reactivity	0
	Personal Protection	B

MANUFACTURED BY: RBP CHEMICAL CORPORATION
TEL (414)258-0911 150 SOUTH 118th STREET
(800)558-0747 P.O. BOX 14069
FAX (414)258-7908 MILWAUKEE, WI 53214-0069
EMERGENCY (CHEMTREC) (800)424-9300

HAZARDOUS INGREDIENTS

NAME	CAS#	TLV	STEL	%
XYLENE	1330-20-7	100 ppm	150 ppm	0.1-1.0
LIGHT AROMATIC SOLVENT	64742-95-6	50 ppm	not est.	0.1-1.0
NAPHTHA				
STODDARD SOLVENT	8052-41-3	100 ppm	not est.	0.1-1.0
KEROSENE	8008-20-6	not est.	not est.	1.0-5.0

Constituents which may require SARA Title III Section 313 reporting.
None

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: nd
Solubility in Water: Partial
pH: nd
Density: 8.9 lbs/gal, 1.07 gm/ml,
VOC by EPA Method 24:
5.8%, 0.52 lbs/gal, 62 gm/L
VOC Vapor Pressure: nd
Appearance and Odor:
Dark brown emulsion with tar-like odor.

18 gal used
9.2 lb VOC used

FIRE AND EXPLOSION HAZARD DATA

Flash Point: >210 °F (SCC)

Extinguishing Media:

Appropriate to primary cause of fire. This product will not support combustion.

Special Fire Fighting Procedures:

As in any fire involving chemicals, self contained breathing apparatus and protective clothing should be worn.

Unusual Fire and Explosion Hazards:

None

REACTIVITY DATA

Stability: Stable

Incompatibility:

None known

Hazardous Decomposition Byproducts:

Acetic acid fumes.

Hazardous Polymerization: Will not occur.

Conditions to Avoid:

None

HEALTH HAZARD DATA**Routes of Entry:**

Inhalation	Skin	Ingestion
Primary	Secondary	Unlikely

Health Hazards Acute and Chronic:

Due to the low concentrations of hazardous ingredients in this product, no hazardous exposures are likely when used in the normal manner. Overexposure to the individual hazardous ingredients in their concentrated form may cause respiratory tract irritation, headache and stupor. Ingestion causes irritation to the stomach and intestines. Long term overexposure to most petroleum hydrocarbons may cause liver or kidney injury. Contact may cause eye and skin irritation.

Carcinogenicity:

None of the ingredients in this product are listed by IARC, NTP or OSHA as carcinogenic.

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician.
Skin Contact: Wash affected area with soap and water. Remove contaminated clothing.
Inhalation: Remove to fresh air. Restore breathing if required. Get medical attention.
Ingestion: Give two glasses of water, or preferably milk. DO NOT INDUCE VOMITING. Get medical attention.

Signs and Symptoms of Overexposure:

Headache, dizziness, nausea, irritation of the mucous membranes, respiratory tract irritation, symptoms of bronchitis, or mild narcosis at high concentrations.

Medical Condition Aggravated by Exposure:

May aggravate an existing dermatitis.

PRECAUTIONS FOR USE AND DISPOSAL**Spills:**

Soak up spill with suitable absorbent or rinse to sewer. Rinse area thoroughly with soap and water.

Waste Disposal:

Dispose of in accordance with all local, state or federal regulations. In most jurisdictions, rinse and wash up water may be discharged to sewer.

Special Storage/ Handling Precautions:

None

CONTROL MEASURES**Respiratory Protection:**

Not normally required.

Ventilation:

Local ☐ Mechanical ☒ Special ☐

Eye Protection: Recommended

Gloves: Recommended, butyl, rubber, or neoprene

Other:

An eye fountain should be located in any work place when working with chemicals.

The information contained herein is furnished without warranty of any kind. Users should consider this data a supplement to other information gathered by them and are responsible for completeness of information to assure proper use of these materials and the safety and health of their employees.

Date Printed 1/15/96

This MSDS prepared under the direction of:

Wayne Koontz, Safety Director 2/10/88

Revised: 12/15/95 WJK Rev. Code: 04A

RBPC-00-0002.02



ON THE FLY

PLATE CLEANER AND CONDITIONER

MSDS ID: J9117-01B

H R A T I N G	Health	2
	Fire	1
	Reactivity	0
	Personal Protection	B

MANUFACTURED BY: RBP CHEMICAL CORPORATION
TEL (414)258-0911 150 SOUTH 118th STREET
(800)558-0747 P.O. BOX 14069
FAX (414)258-7908 MILWAUKEE, WI 53214-0069
EMERGENCY (CHEMTREC) (800)424-9300

HAZARDOUS INGREDIENTS

NAME	CAS#	TLV	STEL	%
DIPROPYLENE GLYCOL n-BUTYL ETHER	29911-28-2	not est.	not est.	5.0-10
ANIONIC SURFACTANT	Proprietary	not est.	not est.	1.0-5.0
SODIUM METASILICATE	6834-92-0	not est.	not est.	1.0-5.0

Constituents which may require SARA Title III Section 313 reporting.

None

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: nd

Solubility in Water: Complete

pH: 12.6

Density: 8.7 lbs/gal, 1.04 gm/ml,

VOC by EPA Method 24:

3.6%, 0.31 lbs/gal, 37 gm/L

VOC Vapor Pressure: nd

Appearance and Odor:

Clear blue liquid with a mild odor.

60 gts = 15 gal used

4.65 lb VOC used

FIRE AND EXPLOSION HAZARD DATA

Flash Point: >212 °F (TCC)

Extinguishing Media:

Will not support combustion. Use equipment appropriate to major cause of fire.

Special Fire Fighting Procedures:

As in any fire involving chemicals, self contained breathing apparatus and protective clothing should be worn.

Unusual Fire and Explosion Hazards:

None

REACTIVITY DATA

Stability: Stable

Incompatibility:

None known.

Hazardous Decomposition Byproducts:

Carbon monoxide/dioxide upon thermal decomposition.

Hazardous Polymerization: Will not occur.

Conditions to Avoid:

None

HEALTH HAZARD DATA

Routes of Entry:

Inhalation	Skin	Ingestion
Secondary	Primary	Unlikely

Health Hazards Acute and Chronic:

Contact with the eyes will cause severe irritation and if not promptly treated, may result in eye damage. Prolonged contact with the skin may cause irritation. Repeated and prolonged contact may cause dermatitis. Inhalation of vapors or mists may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Carcinogenicity:

None of the ingredients in this product are listed by IARC, NTP or OSHA as carcinogenic.

Emergency and First Aid Procedures:

Eye Contact: IMMEDIATELY wash out with water for 15 minutes. See a physician.

Skin Contact: Wash with water.

Inhalation: Not considered a hazard for this product.

Ingestion: Drink large quantities of water or fruit juice. Consult a physician.

Signs and Symptoms of Overexposure:

Prolonged skin contact may cause swelling, itching and redness. Inhalation of high concentrations may cause dizziness, nausea and headache.

Medical Condition Aggravated by Exposure:

May aggravate an existing dermatitis.

PRECAUTIONS FOR USE AND DISPOSAL

Spills:

Soak up spill with suitable absorbent. Rinse area well with water or a solution of vinegar and water.

Waste Disposal:

Discharge of small amounts of used solution, rinse or wash-up water to municipal treatment plants, is acceptable in most jurisdictions.

Special Storage/ Handling Precautions:

None

CONTROL MEASURES

Respiratory Protection:

Not normally required. (Organic vapor respirator for excessive mist or vapor concentrations.)

Ventilation:

Local ☐ Mechanical ☒ Special ☐

Eye Protection: Recommended

Gloves: Recommended, butyl, rubber, or neoprene

Other:

An eye fountain should be located in any work place when working with chemicals.

The information contained herein is furnished without warranty of any kind. Users should consider this data a supplement to other information gathered by them and are responsible for completeness of information to assure proper use of these materials and the safety and health of their employees.

Date Printed 12/20/95

This MSDS prepared under the direction of:

Wayne Koontz, Safety Director 12/12/94

Revised: 7/10/95 WJK Rev. Code: 01B

ATTACHMENT 1 Page 2 of 2

MATERIAL SAFETY
DATA SHEET



ASHLAND CHEMICAL, INC.

Subsidiary Of Ashland Oil, Inc.
P.O. BOX 2219
COLUMBUS, OHIO 43216
(614) 889-3933

24-HOUR
Emergency Telephone
1 (800) 274-5263 or
1 (800) ASHLAND

000629

DAMPENING SOLUTION 9010 - *Additive to Genesis* Page: *48*

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: DAMPENING SOLUTION 9010

ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

05 50 015 7638600-

Data Sheet No: 0220245-003.000
Prepared: 02/26/92
Supersedes: 07/17/90

PRODUCT: 7725528
INVOICE: 788286
INVOICE DATE: 07/09/92
TO: ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

ATTN: PLANT MGR./SAFETY DIR.

Dampening Solution

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: SOLVENT BLEND

DOT Hazard Classification: COMBUSTIBLE (173.115)

SECTION II - COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (by VOL)	PEL	TLV	Note
ETHYLENE GLYCOL MONOPROPYL ETHER CAS #: 2807-30-9	99			(1)
2,2,4- TRIME-1,3-PENTANEDIOL, MONOISOBUTYL CAS #: 25265-77-4	1			(2)

Notes:

(1) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SUPPLIER RECOMMENDS A WORKPLACE EXPOSURE LIMIT OF 25 PPM-TWA, "SKIN NOTATION".

THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

(2) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SECTION III - PHYSICAL DATA

Boiling Point	for COMPONENT(99%)	301.00 Deg F (149.44 Deg C) @ 760.00 mm Hg
Vapor Pressure	for COMPONENT(99%)	1.30 mm Hg (77.00 Deg F) (25.00 Deg C)
Specific Vapor Density		HEAVIER THAN AIR
Specific Gravity		LESS THAN WATER
Percent Volatiles		>99%
Evaporation Rate		SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT(TCC) 115.0 - 125.0 Deg F (46.1 - 51.7 Deg C)

EXPLOSIVE LIMIT (LOWEST VALUE OF COMPONENT) LOWER - .6%

EXTINGUISHING MEDIA: ALCOHOL FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED.

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - EXPOSURE TO LIQUID OR VAPOR MAY CAUSE EYE IRRITATION. SYMPTOMS MAY INCLUDE BURNING, TEARING, REDNESS, AND SWELLING.

CONTINUED ON PAGE: 25

ATTACHMENT 1 Page 27 of 48

**MATERIAL SAFETY
DATA SHEET**



ASHLAND CHEMICAL, INC.

Subsidiary of Ashland Oil, Inc.

P.O. BOX 2219
COLUMBUS, OHIO 43216
(614) 889-3333

24-HOUR
Emergency
Telephone

1 (800) 274-5263 or
1 (800) ASHLAND

DEFINITIONS

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Chemical Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

SECTION I

PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: Chemical family or product description.

DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

SECTION II
COMPONENTS

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC, or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELS) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

SECTION III
PHYSICAL DATA

BOILING POINT: Of product if known. The lowest value of the components is listed for mixtures.

VAPOR PRESSURE: Of product if known. The highest value of the components is listed for mixtures.

SPECIFIC VAPOR DENSITY: Compared to AIR = 1. If the Specific Vapor Density of a product is not known, the value is expressed as lighter or greater than air.

SPECIFIC GRAVITY: Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

pH: If applicable.

PERCENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit and vapor pressure above 0.1mm Hg at 68 F.

EVAPORATION RATE: Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

SECTION IV
FIRE AND EXPLOSION DATA

FLASH POINT: Method identified.

EXPLOSION LIMITS: For product if known. The lowest value of the components is listed for mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS: Known or expected hazardous products resulting from heating, burning or other reactions.

SECTION IV (cont.)

EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.

FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

SPECIAL FIRE AND EXPLOSION HAZARDS: States hazards not covered by other sections.

NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

SECTION V
HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: For product.

THRESHOLD LIMIT VALUE: For product.

EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

FIRST AID: Procedures to be followed when dealing with accidental overexposure.

PRIMARY ROUTE OF ENTRY: Based on properties and expected use.

SECTION VI
REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.

INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

SECTION VII
SPILL OR LEAK PROCEDURES

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

SECTION VIII
PROTECTIVE EQUIPMENT TO BE USED

Protective equipment which may be needed when handling the product.

SECTION IX
SPECIAL PRECAUTIONS OR OTHER COMMENTS

Covers any relevant points not previously mentioned.

ADDITIONAL COMMENTS

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "EMPTY" drums should not be given to individuals. Serious accidents have resulted from the misuse of "EMPTIED" containers (drums, pails, etc.). Refer to Sections IV and IX.

MATERIAL SAFETY
DATA SHEET



ASHLAND CHEMICAL, INC.

Subsidiary Of Ashland Oil, Inc

P.O. BOX 2219

COLUMBUS, OHIO 43216

(614) 889-3333

24-HOUR

Emergency

Telephone

1(800) 274-5263 or

1(800) ASHLAND

LAST PAGE--SEE ATTACHMENT PAGE ENCLOSED--LAST PAGE

MATERIAL SAFETY
DATA SHEET



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000629

DAMPENING SOLUTION 9010

Page: 2

SECTION V-HEALTH HAZARD DATA (Continued)

SKIN - EXPOSURE MAY CAUSE MILD SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND BURNING.
CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.
BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM
EFFECTS INCLUDING DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS.
SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

FIRST AID:

IF ON SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. LAUNDRY CONTAMINATED CLOTHING
BEFORE REUSE. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

IF IN EYES: IF SYMPTOMS DEVELOP, MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES FOR AT LEAST
15 MINUTES WHILE HOLDING EYELIDS APART.

IF SWALLOWED: IMMEDIATELY DRINK TWO GLASSES OF WATER AND INDUCE VOMITING BY EITHER GIVING IPECAC SYRUP OR BY
PLACING FINGER AT BACK OF THROAT. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL
ATTENTION IMMEDIATELY.

IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF
BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET, AND GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN ABSORPTION, SKIN CONTACT

EFFECTS OF CHRONIC OVEREXPOSURE:

OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN
LABORATORY ANIMALS: BLOOD ABNORMALITIES, KIDNEY DAMAGE, SPLEEN DAMAGE, LIVER ABNORMALITIES

SECTION VI-REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH: STRONG OXIDIZING AGENTS

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS
NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED.
STOP SPILL AT SOURCE. PREVENT FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. PREVENT FROM
SPREADING. IF RUNOFF OCCURS, NOTIFY AUTHORITIES AS REQUIRED. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO
CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND
OTHER MATERIALS TO CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD:

SMALL SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: IF OVEREXPOSURE HAS BEEN DETERMINED OR DOCUMENTED, A NIOSH/MSHA JOINTLY APPROVED AIR
SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT
OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING
OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW
LEVEL OF OVEREXPOSURE (FROM KNOWN, SUSPECTED OR APPARENT ADVERSE EFFECTS).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA
REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES
(VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATASHEET MUST BE OBSERVED.

WARNING!!! SUDDEN RELEASE OF HOT ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED
TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO VACUUM EQUIPMENT, MAY RESULT IN IGNITIONS WITHOUT
THE PRESENCE OF OBVIOUS IGNITION SOURCES. PUBLISHED "AUTOIGNITION" OR "IGNITION" TEMPERATURE VALUES CANNOT
BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESSES WITHOUT ANALYSIS OF THE ACTUAL PROCESS
CONDITIONS. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO
ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING
WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS
CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

*Old etching solution**Only tested it?**Raw 1 1/2 - 2 yrs. Took
it out of production.***MATERIAL SAFETY DATA SHEET
GENESIS FOUNTAIN SOLUTION****WO****PRODUCT IDENTIFICATION**

Manufacturer's Name:.....Amerikal Products Corporation
Manufacturer's Address:.....950 Tower Road
Mundelein, Illinois 60060-3812
Emergency Telephone:.....(708)-949-8690 USA
Emergency Telefax:.....(708)-949-8701 USA
Product Identifier:.....GENESIS WO Fountain Solution
Product Use:.....Fountain Solution for Sheet Fed
and Web Offset Lithography

Formulation:.....Trade Secret
Amerikal Products Corporation considers the formula of this product to be a trade secret. The exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available, upon request to physicians, industrial hygienists and other health professionals.

HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Components	% (OPT)	CAS#	OSHA PEL	ACGIH TLV	OTHER EXPOSURE
----------------------	------------	------	-------------	--------------	-------------------

There are no ingredients subject to reporting under Section 313 of 40 CFR Part 372.

HMIS HEALTH FLAMMABILITY REACTIVITY PERSONAL PROTECTION

1 1 0 B

PHYSICAL AND CHEMICAL CHARACTERISTICS

PHYSICAL STATE:.....LIQUID
ODOR AND APPEARANCE:.....CLEAR BLUE MILD ODOR
SPECIFIC GRAVITY:.....1.032
VAPOR PRESSURE:.....<12 mm Hg
EVAPORATION RATE:.....DOES NOT APPLY
BOILING POINT:.....>212 DEG F.
FREEZING POINT:.....< 0 DEG F.
pH:.....4.4
SOLUBILITY IN WATER:.....COMPLETE

MATERIAL SAFETY DATA SHEET
PAGE TWO
GENESIS POUNTAIN SOLUTION

VOC per liter at 6 oz per gallon: 2.28 gms/liter*
VOC per U.S. gallon as computed
in concentrate under method 24:....0.40 lbs per gal
* Method 24 data on 6 oz per gallon solution reports <1
gm/liter. The 2.28 gms/liter value was mathematically
computed from the results of Method 24 analysis of the
concentrate.

FIRE AND EXPLOSION DATA

FLASHPOINT AND METHOD OF
DETERMINATION.....>200 deg F CC ASTM D93-80
UPPER EXPLOSION LIMIT (% BY VOL)..N.A
LOWER EXPLOSION LIMIT (% BY VOL)..N.A
AUTO-IGNITION TEMPERATURE.....Not available
FLAMMABILITY CLASSIFICATION.....1
EXTINGUISHING MEDIA.....In case of fire, use water,
dry chemical, CO2 or
"alcohol" free foam.
SPECIAL FIRE FIGHTING PROCEDURES..Wear self-contained
breathing apparatus and
full protective clothing.
Apply foam from a safe
distance to cool container
and protect surrounding
area.

UNUSUAL FIRE AND EXPLOSION

HAZARDS.....None

REACTIVITY DATA

CHEMICAL STABILITY.....Stable
INCOMPATIBLE MATERIALS.....Store away from oxidizing
materials.

HAZARDOUS DECOMPOSITION

PRODUCTS.....Carbon dioxide and carbon
monoxide during combustion.
HAZARDOUS POLYMERIZATION.....Will not occur
CONDITIONS TO AVOID.....None

HEALTH HAZARDS

ROUTES OF ENTRY

SKIN CONTACT.....Primary
INHALATION.....Secondary

MATERIAL SAFETY DATA SHEET
PAGE THREE
GENESIS FOUNTAIN SOLUTION

INGESTION.....Unlikely

HEALTH HAZARDS (ACUTE AND CHRONIC).....Undiluted concentrate can cause severe eye irritation. Liquid vapor/mist may irritate the skin, eyes, nasal passages and throat. Contact lenses should not be worn. No irritation is likely after brief skin contact, but may be absorbed through skin. In high concentrations vapors/mists may be absorbed in harmful amounts. This product may be harmful if swallowed. Ingestion may cause nausea, vomiting, diarrhea, dizziness, drowsiness.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE...Pre-existing dermatitis may be aggravated by exposure to this product.

SPECIFIC FIRST AID

PROCEDURES:....**BREATHING:** If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing has stopped, apply artificial respiration.
EYES: Remove contact lenses and hold eyelids open and flush eyes with abundant water. Seek medical attention.
SKIN: Flush contaminated skin with abundant water.
INGESTION: If ingested, give plenty of water and induce vomiting. Call a physician immediately.

CARCINOGENICITY

NTP.....NO
IARC MONOGRAPHS.....NO
OSHA.....NO

SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

LEAK AND SPILL PROCEDURES.....Soak up with an absorbent material. Pick up. Clean with water.
WASTE DISPOSAL.....Dispose of in accordance with state, local and federal regulations.

MATERIAL SAFETY DATA SHEET
PAGE FOUR
GENESIS FOUNTAIN SOLUTION

**HANDLING PROCEDURES AND
EQUIPMENT.....**

For industrial use only.
Avoid repeated contact with
skin. Use goggles & gloves.

STORAGE PRECAUTIONS.....

Store in a well ventilated
area away from all sources of
heat and combustible
materials. Keep container
closed when not in use.

SPECIAL PROTECTION INFORMATION / CONTROL MEASURES

RESPIRATORY PROTECTION.....Not required under normal use
conditions.
VENTILATION.....Adequate ventilation required.
PROTECTIVE GLOVES.....Chemical resistant
EYE PROTECTION.....Safety goggles
OTHER PROTECTIVE EQUIPMENT.....Eye wash station and safety
shower
WORK AND HYGIENIC PRACTICES....Wash hands after handling.
Remove contaminated clothing.

STATE RIGHT TO KNOW

CALIFORNIA PROPOSITION 65

This product contains no levels of listed substances,
which the State of California has found to cause cancer,
birth defects or other reproductive harm, which would
require a warning under the statute.

This product is non-photochemically reactive per
California South Coast Rule 102.

TSCA

All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

DATE PREPARED.....August 30, 1993

Amerikal Products Corporation has compiled the information and recommendations contained in this Material Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide for itself what safety measures are necessary to safely use this product; alone or in combination with other products.

Etching waste — Replaced Genesis
Used to keep ink off
plates for printing

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 1/01/99

PAGE: 1

ANCHOR LITHKEMKO
50 INDUSTRIAL LOOP NORTH
ORANGE PARK, FL 32073

MEDICAL EMERGENCY PHONE NUMBER * (904) 264-3500 * THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS.

TRANSPORTATION EMERGENCY PHONE NUMBER * (800) 424-9300 * CHEMTREC.

THIS MSDS COMPLIES WITH 29 CFR 1910.1200, HAZARD COMMUNICATION STANDARD. FEDERAL LAW REQUIRES PERSONS RECEIVING THE MATERIAL SAFETY DATA SHEET TO STUDY IT CAREFULLY, BECOME AWARE OF HAZARDS, IF ANY, OF THE PRODUCT INVOLVED. IN THE INTEREST OF SAFETY YOU SHOULD: (1) NOTIFY YOUR EMPLOYEES, AGENTS, AND CONTRACTORS OF THE INFORMATION ON THIS SHEET; (2) FURNISH A COPY TO EACH OF YOUR CUSTOMERS FOR THE PRODUCT; AND (3) REQUEST YOUR CUSTOMERS TO INFORM THEIR EMPLOYEES AND CUSTOMERS AS WELL.

FOR INDUSTRIAL USE ONLY USE ONLY AS DIRECTED DO NOT TAKE INTERNALLY

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: EMERALD PREMIUM DAQ
PRODUCT NUMBER: 2879
DOT PROPER SHIPPING NAME: NOT REGULATED
EMERALD PREMIUM DAQ
DOT NUMBER: NONE
DATE OF LAST MSDS SHIPMENT: N/A
MSDS PREPARED BY: L. M. ANDERSON

HMIS INFORMATION: HEALTH - 1 FLAMMABILITY - 1
REACTIVITY - 0 PERSONAL PROTECTIVE EQUIPMENT - 8

HAZARD INDEX: 4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT 0 = LEAST
SAFETY GLASSES & GLOVES

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION	CAS#	% BY WT.	ACGIH TLV(TWA) PPM	OSHA PEL PPM	OTHER LIMITS
ACETIC ACID 70%	/64-19-7	/ <5	/ 10.00/	10.00/	
CAUSTIC SODA (50% SOLUTION)	/1310-73-2	/ <5	/ 2.00/	2.00/	
SOLVENT EB (SYN.: 2-BUTOXYETHANOL)	/111-76-2	/ 8.56	/ 25.00/	25.00/	/ (AS DUST)
	/	/	/	/	/ ACGIH - SKIN
	/	/	/	/	/ OSHA - SKIN
	/	/	/	/	/ NIOSH - 5 PPM:
	/	/	/	/	/ FOR 10 HR DAY,
	/	/	/	/	/ 40 HR WORK WEEK
SOLVENT EP (SYN.: 2-PROPOXYETHANOL)	/2807-30-9	/ 6.44	/ NOT EST/	NOT EST/	/ 25PPM-SKIN(MFR)

* 1 gal = 3.11 lbs/gal x 120 gals used = 373.20 VOC used

* purchased additional 55 gal drums from another distributor

MATERIAL SAFETY DATA SHEET

PAGE 2

EMERALD PREMIUM DAQ

THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR SUSPECTED CARCINOGENS WHICH ARE NOTED BY NTP, IARC OR OSHA-Z IN THE OTHER LIMITS COLUMN.

SECTION III PHYSICAL DATA

BOILING RANGE: HIGH- 340.0 F LOW- 212.0 F
VAPOR PRESSURE: NOT AVAILABLE
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN BUTYL ACETATE
WEIGHT LBS./GAL.: 8.7
METHOD 24 VOC: 3.11 LBS./GAL.
PHYSICAL STATE: LIQUID
APPEARANCE: GREEN
ODOR: MILD
PH: 3.9
WATER SOLUBILITY: 100%
CALIFORNIA SCAQMD RULE 102: NONPHOTOCHEMICALLY REACTIVE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: NONE
FLASHPOINT TCC: GREATER THAN 200 DEGREES F.

EXTINGUISHING MEDIA: USE FOAM, CO2, OR DRY CHEMICAL FIRE APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: GENTLY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES AND SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING (WASH BEFORE RE-USE), WASH AFFECTED SKIN AREAS WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: REMOVE VICTIM TO FRESH AIR.

INGESTION: INDUCE VOMITING AND SEEK MEDICAL ATTENTION IMMEDIATELY.

MATERIAL SAFETY DATA SHEET

PAGE 3

EMERALD PREMIUM DAQ

SECTION VI HEALTH INFORMATION, ACUTE AND CHRONIC

EYES: DIRECT CONTACT MAY CAUSE BURNING, TEARING AND REDNESS.

SKIN EFFECTS: PROLONGED OR REPEATED SKIN CONTACT MAY RESULT IN DERMATITIS. MAY BE ABSORBED THROUGH SKIN.

INHALATION: NO SYMPTOMS NORMALLY SEEN WHEN THIS PRODUCT IS USED IN ITS INTENDED MANNER.

PRIMARY ROUTES OF ENTRY: SKIN AND/OR EYE CONTACT.

SYSTEMIC AND OTHER EFFECTS: CHRONIC OVEREXPOSURE TO SOLVENT EB IN HIGH CONCENTRATIONS HAS CAUSED ANEMIA, LIVER AND BLOOD ABNORMALITIES, AND KIDNEY AND LUNG DISEASE IN LABORATORY ANIMALS; MAY CAUSE MATERNAL TOXICITY. CHRONIC OVEREXPOSURE TO SOLVENT EP IN HIGH CONCENTRATIONS HAS CAUSED BLOOD AND LIVER ABNORMALITIES, AND KIDNEY AND SPLEEN DAMAGE IN LABORATORY ANIMALS.

SECTION VII REACTIVITY DATA

STABILITY: STABLE.

CONDITIONS TO AVOID: NONE.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. CONDITIONS TO AVOID: NONE.

SECTION VIII SPILL AND LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: STOP AND/OR CONTAIN DISCHARGE IF IT MAY BE DONE SAFELY. KEEP ALL SOURCES OF IGNITION AWAY AND USE NON-SPARKING TOOLS FOR CLEANUP. VENTILATE AREA OF SPILL AND COVER WITH INERT MATERIAL TO REDUCE FUMES IF NECESSARY. KEEP OUT OF DRAINS, SEWERS OR WATERWAYS; NOTIFY LOCAL HEALTH AND POLLUTION CONTROL AGENCIES, AND CALL SPILL RESPONSE TEAMS IF LARGE SPILL.

WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE, FEDERAL REGULATIONS.

MATERIAL SAFETY DATA SHEET

PAGE 4

EMERALD PREMIUM DAQ

SECTION IX PERSONAL PROTECTION AND STORAGE PRECAUTIONS

RESPIRATORY PROTECTION: NONE NORMALLY NECESSARY WHEN THIS PRODUCT IS USED IN ITS INTENDED MANNER.

PROTECTIVE GLOVES: THE USE OF GLOVES WHICH ARE IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN IRRITATION AND ABSORPTION.

EYE PROTECTION: SAFETY GLASSES ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.

OTHER PROTECTIVE EQUIPMENT: THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

HANDLING AND STORAGE PRECAUTIONS: KEEP PRODUCT CONTAINERS CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS: EMPTIED CONTAINERS MAY RETAIN PRODUCT RESIDUES; THEREFORE, ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET SHOULD BE OBSERVED. CAUTION!

SECTION X SECTION 313 TOXIC CHEMICALS

FOLLOWING IS A DESCRIPTION OF CERTAIN HYDROCARBON SOLVENTS WHICH CONTAIN COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 - 40 CFR 372 (CHECK SECTION XI INGREDIENTS AND LIST BELOW TO DETERMINE IF ANY OF THESE APPLY TO THIS PRODUCT):

AROMATIC 100 MAY CONTAIN UP TO 7% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 21% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 3% BY WEIGHT CUMENE (CAS#98-82-8).

AROMATIC 150 MAY CONTAIN UP TO 2% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6) AND UP TO 10% BY WEIGHT NAPHTHALENE (CAS#91-20-3).

SOLVENT D MAY CONTAIN UP TO 3.5% BY WEIGHT XYLENE (CAS#1330-20-7), UP TO 1% BY WEIGHT NAPHTHALENE (CAS#91-20-3), 15.4% TO 18.9% BY WEIGHT 1,2,4-TRIMETHYLBENZENE (CAS#95-63-6), AND UP TO 2.6% BY WEIGHT CUMENE (CAS#98-82-8).

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS AND/OR HYDROCARBON SOLVENTS WITH COMPONENTS WHICH ARE SUBJECT TO SARA 313 REQUIREMENTS:

SOLVENT EB	111-76-2	8.56
SOLVENT EP	2807-30-9	6.44

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN THE MANUFACTURER AND ITS SUPPLIERS. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT WITHIN THE CONTROL OF THE MANUFACTURER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

MATERIAL SAFETY DATA SHEET

PAGE 5

EMERALD PREMIUM DAQ

SPECIAL CALIFORNIA PROPOSITION 65 WARNINGS

THE FOLLOWING INFORMATION IS REQUIRED BY THE STATE OF CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986, OR PROPOSITION 65. THIS CALIFORNIA REGULATION DOES NOT ADDRESS DI MINIMUS LEVELS; THEREFORE, EVEN TRACE AMOUNTS OF THE CHEMICALS INCLUDED ON PROPOSITION 65'S LIST OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY MUST BE NOTED WITH THE "SAFE HARBOR" WORDING. WARNING: IF THIS PRODUCT CONTAINS AROMATIC 100 OR LACOLENE--CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS--THESE CHEMICALS CONTAIN BOTH BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND TOLUENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF THIS PRODUCT CONTAINS VM&P NAPHTHA--CHECK THE INGREDIENTS LISTED IN SECTION II OF THIS MSDS--VM&P NAPHTHA CONTAINS BENZENE, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**MATERIAL SAFETY
DATA SHEET**



ASHLAND CHEMICAL, INC.
Subsidiary Of Ashland Oil, Inc.
P.O. BOX 2219
COLUMBUS, OHIO 43216
(614) 889-3333

24-HOUR
Emergency Telephone **49**
1(800) 274-5263
1(800) ASHLAND

000461

GLYCOL ETHER EP

Coalant for old press
Page: **49**

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: GLYCOL ETHER EP
CAS NUMBER: 2807-30-9

ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

05 50 015 7638600-

Data Sheet No: 0102814-002.000
Prepared: 12/22/88
Supersedes: 04/21/86

PRODUCT: 3405900
INVOICE: 675521
INVOICE DATE: 05/27/92
TO: ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

ATTN: PLANT MGR./SAFETY DIR.

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: GLYCOL ETHER

DOT Hazard Classification: COMBUSTIBLE (173.115)

SECTION II - COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORT-
ING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (by WT)	PEL	TLV	Note
ETHYLENE GLYCOL MONOPROPYL ETHER CAS #: 2807-30-9	100			(1)

Notes:

(1) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SUPPLIER RECOMMENDS A WORKPLACE EXPOSURE LIMIT OF 25 PPM-TWA, "SKIN NOTATION".

THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

Boiling Point	for PRODUCT	301.00 - 308.30 Deg F (149.44 - 153.50 Deg C) @ 760.00 mm Hg
Vapor Pressure	for PRODUCT	@ 1.30 mm Hg (77.00 Deg F 25.00 Deg C)
Specific Vapor Density	AIR = 1	3.6
Specific Gravity		@ .913 (68.00 Deg F 20.00 Deg C)
Percent Volatiles		>95%
Evaporation Rate	(N-BUTYL ACETATE = 1)	.22

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT(TOC) 120.0 Deg F (48.9 Deg C)

EXPLOSIVE LIMIT (PRODUCT) LOWER - 1.3%

EXTINGUISHING MEDIA: ALCOHOL FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

NFPA CODES: HEALTH- 1 FLAMMABILITY- 2 REACTIVITY- 0

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED.

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.

SKIN - CAN CAUSE IRRITATION.

CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.

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ATTACHED TO Page 41 of 49

**MATERIAL SAFETY
DATA SHEET**



ASHLAND CHEMICAL, INC.
Subsidiary Of Ashland Oil, Inc.
P.O. BOX 2219
COLUMBUS, OHIO 43216
(614) 889-3333

24-HOUR
Emergency Telephone **49**
1(800) 274-5263 or
1(800) ASHLAND

000461

GLYCOL ETHER EP

Page:

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: GLYCOL ETHER EP
CAS NUMBER: 2807-30-9

ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

05 50 015 7638600-

Data Sheet No: 0102814-002.000
Prepared: 12/22/88
Supersedes: 04/21/86

PRODUCT: 3405900
INVOICE: 675521
INVOICE DATE: 05/27/92
TO: ROSSE LITHOGRAPHING CO INC
2100 WYANDOTTE
KANSAS CITY MO 64108

ATTN: PLANT MGR./SAFETY DIR.

SECTION I - PRODUCT IDENTIFICATION

General or Generic ID: GLYCOL ETHER

DOT Hazard Classification: COMBUSTIBLE (173.115)

SECTION II - COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (by WT)	PEL	TLV	Note
ETHYLENE GLYCOL MONOPROPYL ETHER CAS #: 2807-30-9	100			(1)

Notes:

(1) PEL/TLV NOT ESTABLISHED FOR THIS MATERIAL

SUPPLIER RECOMMENDS A WORKPLACE EXPOSURE LIMIT OF 25 PPM-TWA, "SKIN NOTATION".

THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

Boiling Point	for PRODUCT	301.00 - 308.30 Deg F (149.44 - 153.50 Deg C) @ 760.00 mm Hg
Vapor Pressure	for PRODUCT	@ 1.30 mm Hg (77.00 Deg F 25.00 Deg C)
Specific Vapor Density	AIR = 1	3.6
Specific Gravity		@ .913 (68.00 Deg F 20.00 Deg C)
Percent Volatiles		>95%
Evaporation Rate	(N-BUTYL ACETATE = 1)	.22

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT(TOC) 120.0 Deg F (48.9 Deg C)

EXPLOSIVE LIMIT (PRODUCT) LOWER - 1.3%

EXTINGUISHING MEDIA: ALCOHOL FOAM OR WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

ALL FIVE GALLON PAILS AND LARGER METAL CONTAINERS INCLUDING TANK CARS AND TANK TRUCKS SHOULD BE GROUNDED AND/OR BONDED WHEN MATERIAL IS TRANSFERRED.

NFPA CODES: HEALTH- 1 FLAMMABILITY- 2 REACTIVITY- 0

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED.

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.

SKIN - CAN CAUSE IRRITATION.

CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.

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**MATERIAL SAFETY
DATA SHEET**



ASHLAND CHEMICAL, INC.

Subsidiary of Ashland Oil, Inc.
P.O. BOX 2219
COLUMBUS, OHIO 43216
(614) 889-3333

24-HOUR
Emergency
Telephone
1 (800) 274-5263
1 (800) ASHLAND

DEFINITIONS

This definition page is intended for use with Material Safety Data Sheets supplied by the Ashland Chemical Company. Recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

SECTION I

PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: Chemical family or product description.

DOT HAZARD CLASSIFICATION: Product meets DOT criteria for hazards listed.

SECTION II
COMPONENTS

Components are listed in this section if they present a physical or health hazard and are present at or above 1% in the mixture. If a component is identified as a CARCINOGEN by NTP, IARC, or OSHA as of the date on the MSDS, it will be listed and footnoted in this section when present at or above 0.1% in the product. Negative conclusions concerning carcinogenicity are not reported. Additional health information may be found in Section V. Components subject to the reporting requirements of Section 313 of SARA Title III are identified in the footnotes in this section, along with typical percentages. Other components may be listed if deemed appropriate.

Exposure recommendations are for components. OSHA Permissible Exposure Limits (PELS) and American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs) appear on the line with the component identification. Other recommendations appear as footnotes.

SECTION III
PHYSICAL DATA

BOILING POINT: Of product if known. The lowest value of the components is listed for mixtures.

VAPOR PRESSURE: Of product if known. The highest value of the components is listed for mixtures.

SPECIFIC VAPOR DENSITY: Compared to AIR = 1. If the Specific Vapor Density of a product is not known, the value is expressed as lighter or greater than air.

SPECIFIC GRAVITY: Compared to WATER = 1. If Specific Gravity of product is not known, the value is expressed as less than or greater than water.

pH: If applicable.

PERCENT VOLATILES: Percentage of material with initial boiling point below 425 degrees Fahrenheit and vapor pressure above 0.1mm Hg at 68 F.

EVAPORATION RATE: Indicated as faster or slower than ETHYL ETHER, unless otherwise stated.

SECTION IV
FIRE AND EXPLOSION DATA

FLASH POINT: Method identified.

EXPLOSION LIMITS: For product if known. The lowset value of the components is listed for mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS: Known or expected hazardous products resulting from heating, burning or other reactions.

SECTION IV (cont.)

EXTINGUISHING MEDIA: Following National Fire Protection Association criteria.

FIREFIGHTING PROCEDURES: Minimum equipment to protect firefighters from toxic products of vaporization, combustion or decomposition in fire situations. Other firefighting hazards may also be indicated.

SPECIAL FIRE AND EXPLOSION HAZARDS: States hazards not covered by other sections.

NFPA CODES: Hazard ratings assigned by the National Fire Protection Association.

SECTION V
HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT: For product.

THRESHOLD LIMIT VALUE: For product.

EFFECTS OF ACUTE OVEREXPOSURE: Potential local and systemic effects due to single or short term overexposure to the eyes and skin or through inhalation or ingestion.

EFFECTS OF CHRONIC OVEREXPOSURE: Potential local and systemic effects due to repeated or long term overexposure to the eyes and skin or through inhalation or ingestion.

FIRST AID: Procedures to be followed when dealing with accidental overexposure.

PRIMARY ROUTE OF ENTRY: Based on properties and expected use.

SECTION VI
REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Conditions to avoid to prevent hazardous polymerization resulting in a large release of energy.

STABILITY: Conditions to avoid to prevent hazardous or violent decomposition.

INCOMPATIBILITY: Materials and conditions to avoid to prevent hazardous reactions.

SECTION VII
SPILL OR LEAK PROCEDURES

Reasonable precautions to be taken and methods of containment, clean-up and disposal. Consult federal, state and local regulations for accepted procedures and any reporting or notification requirements.

SECTION VIII
PROTECTIVE EQUIPMENT TO BE USED

Protective equipment which may be needed when handling the product.

SECTION IX
SPECIAL PRECAUTIONS OR OTHER COMMENTS

Covers any relevant points not previously mentioned.

ADDITIONAL COMMENTS

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. "EMPTY" drums should not be given to individuals. Serious accidents have resulted from the misuse of "EMPTY" containers (drums, pails, etc.). Refer to Sections IV and IX.

ATTACHMENT 1 Page 43 of 44

CORK INDUSTRIES, INC.

500 Kaiser Drive • Folcroft, PA 19032 • (610) 522-9550 • FAX (610) 522-9659

REV. 2-99

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Material Name (Trade Name): **CK-303**
Manufacturer: Cork Industries, Inc. Folcroft, PA. 19032
Chemical Name: Aqueous Acrylic Emulsion
Chemical Family: Polymer Dispersion
Emergency Telephone Numbers
1-610-522-9550

Sales & Product Info Phone
1-610-522-9550

"Aqueous Coating" 68
1 of several
for plastic or
vinyl type surface

use on
styrene type int

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>Gas Number</u>	<u>Weight %</u>
Acrylic Emulsion Polymer	Proprietary	30 - 60
Water	7732-18-5	30 - 60
Propylene Glycol	57-55-6	1 - 4
Ammonium Hydroxide (Ca., N.J., Ma.)	1336-21-6	1 - 3
Wax	Proprietary	2 - 5

The specific chemical identity of any substance not identified with a chemical abstract number is being held as a trade secret.

SECTION 3: PHYSICAL DATA

Boiling Point	Approx. 212° F.
Melting Point	Not applicable
Specific Gravity	1.03 ± .02
Solubility in Water	Miscible
Vapor Pressure	Of Water
Vapor Density	Of Water Vapor
% Volatiles	50 - 75
pH	7.2 - 9.0
Appearance	Translucent
Odor	Sweet, Ammonical
V.O.C.	Lbs. / Gal.

SECTION 4: FIRE AND EXPLOSION DATA

Flash Point:	None
Flammable Limits:	Not applicable
Extinguishing Media:	Water, Carbon Dioxide

Special Fire Fighting Procedures:

When solids in an emulsion burn, water (H₂O), carbon dioxide (CO₂), nitrogen oxides (NO_x) (if a nitrogen component is in polymer or additives) and smoke is produced. Pyrolysis products may include acetic acid, acrolein, acetaldehyde and other monomer fragments from depolymerization.

Fire Explosion Hazard:

There are no unusual fire or explosion hazards.

SECTION 7: SPILL, LEAK AND DISPOSAL PROCEDURES

68

If material is released or spilled, dam up to limit spreading. Mop up or absorb on inert material and place in containers. If spill occurs in enclosed area, ventilate. Polymer may be separated from water by the procedure indicated below.

Note: Spilled emulsion is very slippery. Use care to avoid falls. Latex will leave a film on drying. Remove saturated clothing and wash contacted skin areas with soap and water.

DISPOSAL:

For small spills (probably less than 100 gallons), dilute 50 to 100 fold with water. Wash into industrial sewer. (Warning. Consult local sewer authority before discharging.)

For large quantities, place in settling pond and add ferric chloride and lime. Decant water. Dispose of solids in landfill. Emulsion can be incinerated directly under appropriate conditions.

Care: The products will impart a white milky color to water. When the water is agitated or is turbulent, foaming can result. As supplied or diluted, product material (foam included) when splashed on automobiles or other personal property is difficult to remove if allowed to dry.

All federal, state and local regulations regarding health and pollution should be followed when disposing of contaminated water or recovered material.

SECTION 8: SPECIAL PROTECTION INFORMATION

Ventilation: Provide sufficient ventilation to maintain airborne concentrations below the exposure guideline.

Eye Protection: Use safety goggles when splash potential exists.

Hand Protection: Rubber protective gloves are recommended.

Other: See Sections 4 and 5 for specific health and fire hazard information and protective measures.

SECTION 9: SPECIAL PRECAUTIONS AND HANDLING INFORMATION

Normal cleanliness should be observed. Store in a cool place, avoid freezing.

If headspace ventilation is required, use humidified air to reduce skin formation on the emulsion surface.

SECTION 10: ADDITIONAL INFORMATION

The products are not restricted articles according to Department of Transportation and International Air Transport Association regulations.

All components are included in the EPA Toxic Substance Control Act Chemical Substance Inventory.

H.M.I.S.	HEALTH:	1
	FLAMMABILITY:	0
	REACTIVITY:	0

These ratings should be used only as part of H.M.I.S. program.

EPA SARA Title III Hazard Class: None

OSHA HCS Hazard Class: non-OSHA hazardous (29 CFR 1910.1200)

EPA SARA Title III Section 313 (40 CFR 372) Toxic Chemicals present in quantities greater than the "de minimis" level are: None.

Canadian WHMIS Controlled Products classification: not a controlled product.

Gas into

Water used in press; recirculated, filtered + chilled for use.
Do not generate a waste.

Water base nothing to report

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PURE GUM ARABIC 14 BE
PRODUCT CODE: 02229

HMIS CODES: H F R P
0 0 0 A

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: VARN PRODUCTS
ADDRESS: 905 SOUTH WESTWOOD, ADDISON, ILLINOIS 60101
EMERGENCY PHONE: (800) 424-9300 INFORMATION PHONE: (800) 336-8276
DATE REVISED : 10-16-92 NAME OF PREPARER : VARN PRODUCTS CO.
REASON REVISED : UPDATE; SUPERSEDES ALL PREVIOUS REVISIONS.

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE	WEIGHT
		OSHA PEL	ACGIH TLV	OTHER	Eq @ TEMP		

*** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ***

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***
ALL INGREDIENTS ARE LISTED IN THE EPA TSCA INVENTORY.

Ø VOC's

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING POINT: 214 Deg F SPECIFIC GRAVITY (H2O=1): 1.1
VAPOR DENSITY: N/A EVAPORATION RATE: SLOWER THAN ETHER
MATERIAL V.O.C.: N/A
SOLUBILITY IN WATER: 100%
APPEARANCE AND ODOR: STRAW COLORED, VISCOUS LIQUID - NO ODOR

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: N/A METHOD USED: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG
SPECIAL FIREFIGHTING PROCEDURES
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (MSHA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR.

RES:

UNUSUAL FIRE AND EXPLOSION HAZARDS
NONE KNOWN.

VARN-00-0008.01

===== SECTION V - REACTIVITY DATA =====

**STABILITY: STABLE
CONDITIONS TO AVOID**

AVOID CONDITIONS OF EXCESS HEAT TO INCREASE SHELF LIFE.

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID STRONG OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

NONE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

NO HAZARD IN NORMAL INDUSTRIAL USE.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

PROLONGED OR REPEATED CONTACT WITH SKIN MAY CAUSE IRRITATION. CONTACT MAY CAUSE EYE IRRITATION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

THIS PRODUCT IS NOT CONSIDERED TO BE TOXIC THROUGH SKIN ABSORPTION.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

THIS PRODUCT MAY CAUSE NAUSEA, MODERATE GASTRO-INTESTINAL IRRITATION, AND DIARRHEA. FOLLOW FIRST AID PROCEDURES.

HEALTH HAZARDS (ACUTE AND CHRONIC)

THIS PRODUCT MAY PRODUCE MILD TO MODERATE IRRITATION UPON CONTACT WITH EYES AND MILD IRRITATION TO SKIN. NO CHRONIC EFFECTS ARE KNOWN OR EXPECTED.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

THIS PRODUCT CONTAINS NO KNOWN CARCINOGENS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

EYES: FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: WASH WITH SOAP AND WATER.
INHALATION: MOVE TO FRESH AIR. INGESTION: IF VICTIM IS CONSCIOUS, INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL.
OBTAIN MEDICAL ATTENTION IMMEDIATELY.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SOAK UP ON ABSORBENT MATERIAL. DISPOSE INTO NON-HAZARDOUS REFUSE. WASH RESIDUE WITH SOAP AND WATER.

WASTE DISPOSAL METHOD

THIS PRODUCT, AS RECEIVED, MAY MEET THE SEWER DISPOSAL GUIDELINES IN MANY MUNICIPALITIES. CHECK WITH LOCAL SEWER AUTHORITIES BEFORE DISPOSING OF PRODUCT.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

STORE IN A COOL, DRY AREA FROM SUNLIGHT AND EXCESS HEAT. KEEP FROM FREEZING.

OTHER PRECAUTIONS

WHEN TRANSFERRING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

CONTAINS NO CHEMICALS FOUND ON THE CALIFORNIA PROPOSITION 65 LIST.

PROPER SHIPPING NAME: NOT REGULATED, HAZARD CLASS: N/A, UN NUMBER: N/A, PACKING GROUP: N/A

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

NO SPECIAL PROTECTION IS REQUIRED.

VENTILATION

NO SPECIAL VENTILATION REQUIRED.

PROTECTIVE GLOVES

NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.

EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

NOT NECESSARY.

WORK/HYGIENIC PRACTICES

WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT.

===== SECTION IX - DISCLAIMER =====

DISCLAIMER

THE INFORMATION ON THIS MSDS IS BELIEVED TO BE ACCURATE AS OF THE DATE SHOWN IN SECTION 1. SINCE THE USE OF THIS PRODUCT IS NOT IN THE CONTROL OF VARN, IT IS THE USER'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE USAGE FOR A PARTICULAR PURPOSE. THIS FORM MAY BE REPRODUCED LOCALLY IN ANY QUANTITIES NECESSARY TO MEET YOUR REQUIREMENTS.

MATERIAL SAFETY DATA SHEET

200000615/F/USA - D-0029.500E

Approval Date: 07/01/1992

Print Date: 07/04/1992

Page 1

*Got
series*

16

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK ULTRATEC Fixer and Replenisher

Catalog Number(s): 101 7748 - To Make 20 gallon(s) (U.S.)

Manufacturer/Supplier: EASTMAN KODAK COMPANY, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call: 716-722-5151

For Other Information, call the Marketing and Distribution Center in Your Area.

Synonym(s): KAN 427810; PCD 4896; D-0029.500

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

40-45	Water (007732-18-5)
40-45	Ammonium thiosulfate (007783-18-8)
5-10	Sodium acetate (000127-09-3)
1-5	Boric acid (010043-35-3)
1-5	Ammonium sulfite (010196-04-0)
1-5	Acetic acid (000064-19-7)
< 1	Sodium bisulfite (007631-90-5)

3. HAZARDS IDENTIFICATION

LOW HAZARD FOR RECOMMENDED HANDLING

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Drink 1-2 glasses of water. Seek medical attention.

5. FIRE FIGHTING MEASURES

MATERIAL SAFETY DATA SHEET

200000615/F/USA - D-0029.500E

Approval Date: 07/01/1992

Print Date: 07/04/1992

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Extinguishing Media: Use appropriate agent for adjacent fire.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: None (noncombustible), (see also Hazardous Decomposition Products)

Unusual Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of water.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: No special precautionary measures should be needed under anticipated conditions of use.

Storage: Keep container closed. Keep away from acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Acetic acid: 10 ppm TWA, 15 ppm STEL

Sodium bisulfite: 5 mg/m³ TWA

OSHA (USA) Permissible Exposure Limit (PEL):

Acetic acid: 10 ppm TWA

Sodium bisulfite: 5 mg/m³ TWA

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Personal Protection: Good industrial hygiene practice should be followed which includes preventing eye contact and minimizing skin contact and inhalation.

Respiratory Protection: None should be needed.

MATERIAL SAFETY DATA SHEET

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Eye Protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

Skin Protection: It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities: Eye bath, washing facilities, safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical Form: Liquid
- Color: Light yellow
- Odor: Slight sulfur, vinegar
- Specific Gravity (water = 1): 1.318
- Vapor Pressure at 20 C (68 F): 24 mbar (18 mm Hg)
- Vapor Density (Air = 1): 0.6
- Volatile Fraction by Weight: 64 %
- Boiling Point: 100 C (212 F)
- Solubility in Water: Complete
- pH: 5.0
- Flash Point: None, noncombustible liquid

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Contact with acid liberates flammable material, harmful gas.

Hazardous Decomposition Products: Ammonia, sulfur dioxide, nitrogen oxides (NO_x)

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: No specific hazard known. May cause transient irritation.

Skin: Low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

MATERIAL SAFETY DATA SHEET

200000615/F/USA - D-0029.500E

Approval Date: 07/01/1992

Print Date: 07/04/1992

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12. ECOLOGICAL INFORMATION

Introduction: This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material, and, in general, it is not meant to address discharges to sanitary sewers or publically owned treatment works.

Summary: Data for the major components of this material have been used to estimate the environmental impact of this material. This material is a moderately acidic aqueous solution, and this property may cause adverse environmental effects.

It is expected to have the following properties: A moderate biochemical oxygen demand and may cause oxygen depletion in aqueous systems, a moderate potential to affect some aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a moderate potential to affect the germination and/or early growth of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge. After dilution with a large amount of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water.

14. TRANSPORT INFORMATION

- For transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-3536 or 588-3573 or 588-3035 Oak Brook, IL (312) 954-6000 Chamblee, GA (404) 455-0123 Dallas, TX (214) 241-1611 Whittier, CA (213) 945-1255 Honolulu, HI (808) 833-1661

15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None
- Carcinogenicity Classification (components present at 0.1% or more):
 - International Agency for Research on Cancer (IARC): None
 - American Conference of Governmental Industrial Hygienists (ACGIH): None
 - National Toxicology Program (NTP): None
 - Occupational Safety and Health Administration (OSHA): None

MATERIAL SAFETY DATA SHEET

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- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None

16. OTHER INFORMATION

US/Canadian Label Statements:

LOW HAZARD FOR RECOMMENDED HANDLING

Keep out of reach of children

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

IN CASE OF SPILL: Absorb spill with inert material, then place in a chemical waste container. Flush residual spill or area with water. Prevent runoff from entering drains, sewers, and streams.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

MATERIAL SAFETY DATA SHEET
EASTMAN KODAK COMPANY

Go to shelf

17 (1)

Date of Revision: 07/17/91

Kodak Accession Number: 448046

PRODUCT INFORMATION

Product Name: KODAK ULTRATEC Developer and Replenisher

Formula: Aqueous Mixture

Product Use: Ingredient for photographic processing

Kodak Catalog No(s): CAT 814 9569 - 5 Gallons; CAT 826 7205 - 52 Gallons;
CAT 121 0475 - 5 Gallons (Canada); CAT 823 3256 - 10 Litres (Japan)

Solution Number: 5395

Kodak Hazard Rating Codes: R: 1 S: 2 F: 0 C: 0

Manufacturer/Supplier:

Eastman Kodak Company

343 State Street

Rochester, New York 14650

USA

For Emergency Information: (716) 722-5151

For other purposes, call the Marketing and Distribution Center in your area.

COMPONENT INFORMATION

	Weight Percent	CAS Number	Accession Number
Water	75-80	7732-18-5	035290
Tripotassium phosphate	5-10	7778-53-2	018991
Sodium sulfite	5-10	7757-83-7	901148
*Hydroquinone **	3	123-31-9	900356
*Sodium hydroxide	1-5	1310-73-2	900807

*Principal Hazardous Component(s)

**Chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 and 40 CFR Part 372.

PHYSICAL DATA

Appearance and Odor: Clear, slightly yellow solution; slight odor

Boiling Point: GT 100 C (GT 212 F)

Vapor Pressure: ca. 18 mmHg @ 20 C

Evaporation Rate (n-butyl acetate = 1): ca. 0.4

Vapor Density (Air = 1): 0.6

Volatile Fraction by Weight: ca. 90 %

Specific Gravity: 1.162

pH: 11.37

Solubility in Water (by Weight): Complete

GT = Greater than; LT = Less than

C-0145.700D
88-0038

This formulation is a strongly alkaline aqueous solution, and this property may cause adverse environmental effects. It has a low biological oxygen demand and is expected to cause little oxygen depletion in aquatic systems. It is expected to have a high potential to affect aquatic organisms and a moderate potential to affect secondary waste treatment microorganisms and the germination and growth of some plants. The organic components of this chemical formulation are readily biodegradable and are not likely to bioconcentrate. The direct instantaneous discharge to a receiving body of water of an amount of this chemical formulation which will rapidly produce, by dilution, a final concentration of 0.17 mg/L or less is not expected to cause an adverse environmental effect. After dilution with a large amount of water, followed by secondary waste treatment, the chemicals in this formulation are not expected to have any adverse environmental impact.

TRANSPORTATION

For Transportation information regarding this product, please phone the Eastman Kodak Distribution Center nearest you: Rochester, NY (716) 588-3536 or 588-3573 or 588-3505; Oak Brook, IL (312) 954-6000; Chamblee, GA (404) 455-0123; Dallas, TX (214) 241-1611; Whittier, CA (213) 945-1255; Honolulu, HI (808) 833-1661.

REFERENCES

1. Unpublished data, Health and Environment Laboratories, Eastman Kodak Company, Rochester, New York.
2. Verschueren, K., Handbook of Environmental Data on Organic Chemicals, Second Edition, Van Nostrand Reinhold Company, New York, N.Y., 1983.
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7. Bringmann, G. and Kuehn, R., "Results of the Damaging Effect of Water Pollutants on Daphnia magna," Z. Wasser Abwasser Forsch., 10(5), 161-6 (1977) (in German).
8. Bringmann, G. and Kuehn, R., "Results of Toxic Action of Water Pollutants on Daphnia magna (Straus) Tested by an Improved Standardized Procedure," Z. Wasser Abwasser Forsch., 15(1), 1-6 (1982) (in German).
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88-0038

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12. Pomona College, Medicinal Chemistry Project, "Chemical Parameter Data Base," Leo, A.J. and Hansch, C., Eds., Seaver Chemistry Laboratory, Claremont, California, June 20, 1987.

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PREPARATION INFORMATION

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Health and Environment Laboratories
Eastman Kodak Company
Rochester, New York 14652-3615

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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C-0145.700D
88-0038

E000540-2-04-07

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

December 10, 1999

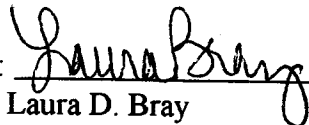
Cody Cochran
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

As required by the Federal Regulations set forth in 40 CFR 264.12 (b), We are hereby notifying you, the generator, that our Scott City facility has the appropriate hazardous waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	EPA WASTE CODE:
C3066-07	Waste Petroleum Distillates	D001

Authorized Signature: _____



Laura D. Bray
Technical Services Supervisor

A division of Millennium Environmental, Inc.

WASTE PROFILE

00 Industrial Fuels Drive • Scott City, MO 63780 • (573) 851-3444 Fax (573) 851-3821

C30660 - 07	Lab. #	Lab. Approval
Process Code:	Final Handling Code:	Rep. #
Recertification Dates:		23

A. General Information

Generator Name:

Rosse Lithographing Co.

Facility Address:

2100 Wyandottc

Mailing Address:

FC MO 64108

Generator USEPA I.D.

M	O	D	9	8	5	8	0	5	4	6	4
---	---	---	---	---	---	---	---	---	---	---	---

Technical Contact:

Cody Cochran 012096

Phone #: 816-842-4669

Fax #: 816-842-7525

C. Chemical Composition (Totals must add up to 100%)

WATER CONTENT	
Petroleum Distillates	20-25
Aliphatic Hydrocarbons	30-40

TOTAL	100%
-------	------

Inner Components - Total (PPM)

Cyanides: NO	PCB's: NO	Sulfides: NO
--------------	-----------	--------------

F. Shipping Information

DOT Hazardous Material? ☒ Yes ☐ No

Proper Shipping Name: WASTE Petroleum Distillates,
NOS

DOT Hazard class 3 ID No. UN/NA 011268 PG 11

RQ 100 ERG# 128

Is this a hazardous waste as defined by 40 CFR 261?

☐ Yes ☐ No

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?

☐ Yes ☐ No If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

J. Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile data, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize MEI - MO and/or its representative (s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

Generator Signature:

Type:

Date _____

ESSEX WASTE MANAGEMENT SERVICES, INC.

P.O. BOX 87-9450 (816) 732-5561

KANSAS CITY, MO 64187-9450

INVOICE**NOTE: NEW REMITTANCE ADDRESS**

INVOICE NUMBER: 605025

INVOICE DATE: 12/06/96

PAGE: 1

SOLD TO: ROSSE LITHOGRAPHING CO.
ATTN: ACCTS PAYABLE
2100 WYANDOTTE
KANSAS CITY, MO
64108

SHIP TO: ROSSE LITHOGRAPHING CO.
2100 WYANDOTTE
KANSAS CITY, MO
64108

SHIP VIA: RECEIVED AT ESSEX 12/03/96
SHIP DATE: 12/03/96
DUE DATE: 01/05/97
TERMS: NET 30

CUST. I.D.: ROS001
P.O. NUMBER: HANK R.
P.O. DATE: 12/03/96
OUR ORDER NO.: 605025
SALESPERSON: RW

ITEM I.D./DESC.	ORDERED	SHIPPED	UNIT	PRICE	NET	TX
MANIFEST #12396 (22352) 95-03440						
INK (55 GAL)	9.00	9.00	DM	200.0000	1800.00	
TRANSPORTATION FEE	1.00	1.00	LOAD	125.0000	125.00	

32440
pd 11/28/97
ck #018518

**RECEIVED DEC 10 1996**

NOTE: All invoices are due according to terms. Buyer agrees to pay to Essex Waste Management Services, Inc.
1. 1.5% interest per month or the maximum rate permitted by law on all past due invoices, and
2. any and all collection costs and fees, including but not limited to attorney fees incurred to obtain payment.

SUBTOTAL:	1925.00
TAX:	0.00
PAYMENTS:	0.00
TOTAL:	1925.00

ATTACHMENT 16 Page 1 of 17

22352

C

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.
M O D 9 8 5 8 0 5 4 6 4

Manifest
Document No.
12396

2. Page 1
of 01

PRE-[02160][01]

3. Generator's Name and Mailing Address

Rosse Lithographing
2100 Wyandotte St.
Kansas City, MO 64108

4. Generator's Phone (816) 842-4669

5. Transporter 1 Company Name

Essex Waste Management

6. US EPA ID Number

M O D 9 8 0 9 6 2 8 4 9

A. Transporter's Phone

913-6481m

816-732-5561

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Essex Waste Management Inc.
1483 SW 58 Highway
Kingsville, MO 64061

10. US EPA ID Number

M O D 9 8 0 9 6 2 8 4 9

C. Facility's Phone

(816) 732-5561

11. Waste Shipping Name and Description

a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS,
(INK)

Approval Number [95-03440]

12. Containers

No. Type

13. Total
Quantity

14. Unit
Wt/Vol

009 DM 4500 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

501/TSO

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR.
AFTER PICKUP FAX A SIGNED MANIFEST COPY TO ESSEX @816-732-6200.
ATTN: KRISTEL

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

CHARLES BISOLINO

Signature

Charlie Bisolino

Month Day Year

12 3 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Robert Eagleson

Signature

Robert Eagleson

Month Day Year

12 03 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

GEORGE E. CARROLL

Signature

George E. Carroll

Month Day Year

12 03 96

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

M.O.D. 9.8.0.0.5.4.6.4

Manifest
Document No.

112396

2. Page 1
of 1

PRE-[02160][01]

3. Generator's Name and Mailing Address

Rosse Lithographing
2100 Wyandotte St.
Kansas City, MO 64108
4. Generator's Phone (816) 842-4669

5. Transporter 1 Company Name

Essex Waste Management

6. US EPA ID Number

M.O.D. 9.8.0.0.6.2.8.4.9

A. Transporter's Phone

913-648-1100
816-732-5561

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Essex Waste Management Inc.
1483 SW 58 Highway
Kingsville, MO 64061

10. US EPA ID Number

M.O.D. 9.8.0.0.9.6.2.8.4.9

C. Facility's Phone

(816) 732-5561

11. Waste Shipping Name and Description

a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS,
(INK)

Approval Number [95-03448]

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

009 DM

4500

P

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR.
AFTER PICKUP FAX A SIGNED MANIFEST COPY TO ESSEX 816-732-6200.
ATTN: KRISTEL

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

CHARLES BISOINO

Signature

Charlie Bisoino

Month Day Year

12 3 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Robert Eagleson

Signature

Robert Eagleson

Month Day Year

12 03 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

.

ESSEX WASTE MANAGEMENT SERVICES, INC.P.O. BOX 87-9450 (816) 732-5561
KANSAS CITY, MO 64187-9450**INVOICE**

INVOICE NUMBER: 701205

INVOICE DATE: 04/25/97

PAGE: 1 of 1

SOLD TO: ROSSE LITHOGRAPHING CO.
ATTN: ACCTS PAYABLE
2100 WYANDOTTE
KANSAS CITY, MO 64108SHIP TO: Rosse Lithographing
2100 Wyandotte St.

Kansas City, MO

64108

SHIP VIA: RECD @ ESSEX 04/19/97
SHIP DATE: 04/18/97
DUE DATE: 05/25/97
TERMS: NET 30CUST. I.D.: ROS001
P.O. NUMBER: STEVE STARH
P.O. DATE: 04/18/97
OUR ORDER NO.: 701205 (24167)
SALESPERSON: RON WILLIAMS

ITEM I.D./DESC.	ORDERED	SHIPPED	UNIT	PRICE	NET	TX
NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS, (INK)						
97184 (24167 01 1) 95-03440		4.00	DM	160.0000	640.00	E
TRANSPORTATION FEE						
97184 (24167)		1.00	LUMP	150.0000	150.00	E

RECEIVED APR 30 1997

NOT: Invoices are due according to terms. Buyer agrees to pay to Essex Waste Management Services, Inc. 1.5% interest per month or the maximum rate permitted by law on all past due invoices, and any and all collection costs and fees, including but not limited to attorney fees incurred to obtain payment.

SUBTOTAL:	790.00
TAX:	0.00
PAYMENTS:	0.00
TOTAL:	790.00

ATTACHMENT 16 Page 4 of 17

C

24167

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M O D 9 8 5 8 0 5 4 6 4	Manifest Document No. 97184	2. Page 1 of 1	PRE-[02500][01]
3. Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St. Kansas City, MO 64108					
4. Generator's Phone 816 842-4669					
5. Transporter 1 Company Name Essex Waste Management Inc.		6. US EPA ID Number M O D 9 8 0 9 6 2 8 4 9	A. Transporter's Phone (816) 732-5561		
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address Essex Waste Management Inc. 1483 SW 58 Highway Kingsville, MO 64061		10. US EPA ID Number M O D 9 8 0 9 6 2 8 4 9	C. Facility's Phone (816) 732-5561		
11. Waste Shipping Name and Description			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS, (INK) Approval Number [95-03440]			NA 4 PM @ 1,600 P		
b.					
c.					
d.					
D. Additional Descriptions for Materials Listed Above 11A. WASTE INK (4X55)			E. Handling Codes for Wastes Listed Above SD1/TSD		
15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR. AFTER PICKUP FAX A SIGNED MANIFEST COPY TO KRISTEL AT 816-732-6200. TRI #69 (913-646-110)					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name X KERRY JOHNSON		Signature X Kerry Johnson		Month Day Year X 4/18/97	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Alphonse Hayes Jr on Behalf of Essex		Signature Alphonse Hayes Jr on Behalf of Essex		Month Day Year 04/18/97	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name Chris Striner For Essex		Signature Chris Striner For Essex		Month Day Year 04/22/97	

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
M O D 9 8 5 8 0 5 4 6 4

Manifest
Document No.
77184

2. Page 1
of 1

PRE-[02600][01]

3. Generator's Name and Mailing Address
Rosse Lithographing
2100 Wyandotte St.
Kansas City, MO 64108
4. Generator's Phone 816 842-4669

5. Transporter 1 Company Name
Essex Waste Management Inc.

6. US EPA ID Number
M O D 9 8 0 9 6 2 8 4 9

A. Transporter's Phone
(816) 732-5561

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Essex Waste Management Inc.
1483 SW 58 Highway
Kingsville, MO 64061

10. US EPA ID Number
M O D 9 8 0 9 6 2 8 4 9

C. Facility's Phone
(816) 732-5561

11. Waste Shipping Name and Description

a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS,
(INK)
Approval Number [95-03440]

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

104 DM 01600 P

b.

c.

d.

RECEIVED

APR 18 1997

D. Additional Descriptions for Materials Listed Above

11A. WASTE INK (4X55)

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR.
AFTER PICKUP FAX A SIGNED MANIFEST COPY TO KRISTEL AT 816-732-6200.
TR1#69 (913-646-110)

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name
Kerry Johnson

Signature
Kerry Johnson

Month Day Year
4/18/97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Ralph E. Hayes Jr on behalf of Essex

Signature
Ralph E. Hayes Jr on behalf of Essex

Month Day Year
04/18/97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR'S COPY
ATTACHMENT 16 page 6 of 12

ESSEX WASTE MANAGEMENT SERVICES, INC.P.O. BOX 87-9450 (816) 732-5561
KANSAS CITY, MO 64187-9450**INVOICE**

INVOICE NUMBER: 704430

INVOICE DATE: 12/12/97

PAGE: 1 of 1

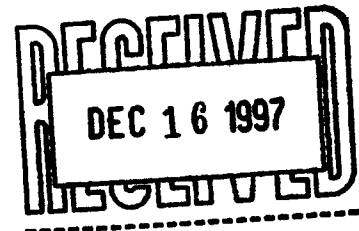
SOLD ROSSE LITHOGRAPHING CO.
TO: ATTN: ACCTS PAYABLE
2100 WYANDOTTE
KANSAS CITY, MO 64108SHIP Rosse Lithographing
TO: 2100 Wyandotte St.

Kansas City, MO

64108

SHIP VIA: RECD @ ESSEX 12/03/97
SHIP DATE: 12/03/97
DUE DATE: 01/11/98
TERMS: NET 30CUST. I.D.: ROS001
P.O. NUMBER: STEVE STARK
P.O. DATE: 12/03/97
OUR ORDER NO.: 704430 (28213)
SALESPERSON: RON WILLIAMS

ITEM I.D./DESC.	ORDERED	SHIPPED	UNIT	PRICE	NET	TX
NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS, (INK)						
337 (28213 01 1) 95-03440		10.00	DM	160.0000	1600.00	E
TRANSPORTATION FEE						
(28213)		1.00	LOAD	150.0000	150.00	E

38768
CK # 21404
1/30/98*Stan*NOTE: All invoices are due according to terms. Buyer agrees to pay to Essex Waste Management Services, Inc.
1. 1.5% interest per month or the maximum rate permitted by law on all past due invoices, and
2. any and all collection costs and fees, including but not limited to attorney fees incurred to obtain payment.SUBTOTAL: 1750.00
TAX: 0.00
PAYMENTS: 0.00
TOTAL: 1750.00

ATTACHMENT 16 Page 7 of 17

28213

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M.O.D.9.8.5.8.0.5.4.6.4	Manifest Document No. 97337	2. Page 1 of 01	PRE-[03447][01]
3. Generator's Name and Mailing Address Rosse Lithographing 2100 Wyandotte St. Kansas City, MO 64108 816-842-4669					
5. Transporter 1 Company Name Essex Waste Management Inc.		6. US EPA ID Number M.O.D.9.8.0.9.6.2.8.4.9		A. Transporter's Phone (816) 732-5561	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone	
9. Designated Facility Name and Site Address Essex Waste Management Inc. 1483 SW 58 Highway Kingsville, MO 64061		10. US EPA ID Number M O D 9 8 0 9 6 2 8 4 9		C. Facility's Phone (816) 732-5561	
11. Waste Shipping Name and Description a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS, (INK) Approval Number [95-03440]			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
b.					
c.					
d.					
D. Additional Descriptions for Materials Listed Above 11A. 10/55 = 12-21			E. Handling Codes for Wastes Listed Above S01/T50		
15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR-(816) 842-4669 AFTER PICKUP FAX A SIGNED MANIFEST COPY TO KATIE AT 816-732-6200. Essex Tel #69 (913-646-110)					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name X GREGORY S. EDWARDS		Signature [Signature]		Month Day Year 12 3 97	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Ralph E. Hayes Jr. W. B. Hayes		Signature [Signature]		Month Day Year 12 3 97	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name B. V. Carroll		Signature [Signature]		Month Day Year 12 03 97	

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

M.O.D.9.8.5.8.0.5.4.6.4

Manifest
Document No.

2. Page 1
of 1

PRE-[03447][01]

3. Generator's Name and Mailing Address

Rosse Lithographing
2100 Wyandotte St.
Kansas City, MO 64108
816 842-4669

4. Generator's Phone

5. Transporter 1 Company Name
Essex Waste Management Inc.

6. US EPA ID Number

M.O.D.9.8.0.9.6.2.8.4.9

A. Transporter's Phone

(816) 732-5561

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Essex Waste Management Inc.
1483 SW 58 Highway
Kingsville, MO 64061

10. US EPA ID Number

M O D 9 8 0 9 6 2 8 4 9

C. Facility's Phone

(816) 732-5561

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS,
(INK)

Approval Number [95-03440]

0.100M 500.0P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

HA. 10/55 = 12-21

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR-(816) 842-4669
AFTER PICKUP FAX A SIGNED MANIFEST COPY TO KATIE AT 816-732-6200.

Essex 716 842-4669 (913-646-1110)

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

THOMAS S. EDWARDS

Signature

[Signature]

Month Day Year

12 3 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Ralph E. Hayes Jr. of Essex

Signature

Ralph E. Hayes Jr. of Essex

Month Day Year

12 30 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

.

ATTACHMENT 16 Page 9 of 17
GENERATOR'S COPY

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
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Form Approved OMB No. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		2. Page		Information in the shaded areas is required by State law.																																																																																																																																								
3. Generator's Name and Mailing Address				Manifest Number		Date																																																																																																																																								
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4. Generator's Phone (816) 842-4669				6. US EPA ID Number		7. Date																																																																																																																																								
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7. Transporter 2 Company Name				10. US EPA ID Number		9. Date																																																																																																																																								
9. Designated Facility Name and Site Address				11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))		12. Containers																																																																																																																																								
Solvent Recovery Corporation 716 Mulberry Kansas City, MO 64101				100001		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>Type</th> <th>13. Total Quantity</th> <th>14. Unit Wt/Vol</th> <th>15. Waste No.</th> </tr> </thead> <tbody> <tr> <td>a. 100</td> <td>DRUM</td> <td>202.75</td> <td>G</td> <td>100</td> </tr> <tr> <td>b. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>c. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>d. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>e. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>f. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>g. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>h. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>i. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>j. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>k. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>l. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>m. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>n. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>o. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>p. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>q. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>r. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>s. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>t. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>u. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>v. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>w. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>x. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>y. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> <tr> <td>z. 100</td> <td>DRUM</td> <td>208.80</td> <td>G</td> <td>100</td> </tr> </tbody> </table>		Number	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	a. 100	DRUM	202.75	G	100	b. 100	DRUM	208.80	G	100	c. 100	DRUM	208.80	G	100	d. 100	DRUM	208.80	G	100	e. 100	DRUM	208.80	G	100	f. 100	DRUM	208.80	G	100	g. 100	DRUM	208.80	G	100	h. 100	DRUM	208.80	G	100	i. 100	DRUM	208.80	G	100	j. 100	DRUM	208.80	G	100	k. 100	DRUM	208.80	G	100	l. 100	DRUM	208.80	G	100	m. 100	DRUM	208.80	G	100	n. 100	DRUM	208.80	G	100	o. 100	DRUM	208.80	G	100	p. 100	DRUM	208.80	G	100	q. 100	DRUM	208.80	G	100	r. 100	DRUM	208.80	G	100	s. 100	DRUM	208.80	G	100	t. 100	DRUM	208.80	G	100	u. 100	DRUM	208.80	G	100	v. 100	DRUM	208.80	G	100	w. 100	DRUM	208.80	G	100	x. 100	DRUM	208.80	G	100	y. 100	DRUM	208.80	G	100	z. 100	DRUM	208.80	G	100
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11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))				12. Containers		13. Total Quantity																																																																																																																																								
a. 100, WASTE PETROLEUM DISTILLATES, N.O.S., 3, UN1268, PG II, EPA 128, (EPA 1001) Blanket work				100		202.75																																																																																																																																								
b. 100 UNREGULATED MATERIAL, Ink				100		208.80																																																																																																																																								
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15. Special Handling Instructions and Additional Information				16. Generator's Certification		17. Transporter 1 Acknowledgement																																																																																																																																								
RETURN WASTE TO GENERATOR IF UNDELIVERABLE				I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.		Signature																																																																																																																																								
EMERGENCY CONTACT: 816-842-4669				If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.		Date																																																																																																																																								
Printed/Typed Name				Signature		Month Day Year																																																																																																																																								
Cody Cochran				Cody Cochran		09/29/99																																																																																																																																								
17. Transporter 1 Acknowledgement of Receipt of Materials				18. Transporter 2 Acknowledgement of Receipt of Materials		19. Discrepancy Indication Space																																																																																																																																								
Printed/Typed Name				Signature		Date																																																																																																																																								
DEBORAH GREEN				Deborah Green		09/29/99																																																																																																																																								
Printed/Typed Name				Signature																																																																																																																																										

SEE INSTRUCTIONS SHOULD PART 10-25-11 BETWEEN



MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

Blanket wash
Hazardous Waste Manifest

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
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Print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MOD983805464		Manifest Document No. MOD983805464		2. Page 1 of 1		Information in the shaded areas is required by State law.									
3. Generator's Name and Mailing Address Rosco Lithographing 2100 Wyandotte K.C., MO 64108						A. Missouri Manifest Document Number 012096											
4. Generator's Phone 816-842-4669						B. S.S.I. (Gen. Site Address) SAME											
5. Transporter 1 Company Name Able Transportation						C. MO Trans. ID H-1982											
6. US EPA ID Number MOD983817444						D. Transporter's Phone 800-776-1339											
7. Transporter 2 Company Name						E. MO Trans. ID											
8. US EPA ID Number						F. Transporter's Phone											
9. Designated Facility Name and Site Address MEI-MO 3100 Industrial Fuels Drive Scott City, MO 63780						G. State Facility's ID 003279											
10. US EPA ID Number MOD980632254						H. Facility's Phone 573-631-3444											
11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))						12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol.		1. Waste No.					
a. Non-Regulated Color Wash <i>Flanker wash changed to</i>						3 DM		155 G				EPA WASTE CODE NON-H					
b. Waste Flammable Liquid, n.o.s. (Petroleum Distillates)												STATE					
3, UN1993, PG II RA - (DOO1) ERG#128 <i>Blanket wash</i>						4 DM		220 G				EPA WASTE CODE DOO1					
												STATE					
												EPA WASTE CODE					
												STATE					
												EPA WASTE CODE					
												STATE					
Additional Descriptions for Materials Listed Above						K. HANDLING CODE (FACILITY USE ONLY)											
a. C3066-05						INTERNAL FINAL COMMENTS											
b. C3066-02 Dampening Solution						a. 3.0 1 750											
						b. 3.0 1 750											
						c. 3.0 1 750											
						d. 3.0 1 750											
15. Special Handling Instructions and Additional Information 24 Hour Emergency Contact 816-842-4669 Trailer License Plate # 970-788-MO C3066-01-99																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.																	
Printed/Typed Name Cody Cochran						Signature Cody Cochran						Month 12		Day 27		Year 99	
17. Transporter 1 Acknowledgement of Receipt of Materials																	
Printed/Typed Name Rick Tidwell						Signature Rick Tidwell						Month 12		Day 27		Year 99	
18. Transporter 2 Acknowledgement of Receipt of Materials																	
Printed/Typed Name						Signature						Month		Day		Year	
19. Discrepancy Indication Space 11a) Did not receive 3 non-hazardous color wash. Instead, received 4 drums of 11b) Waste Flammable Liquid, n.o.s. (Petroleum Distillates) 3, UN1993, PG II RA - (DOO1) ERG#128 LB																	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																	
Printed/Typed Name LAURA BRAY						Signature Laura Bray						Month 10		Day 29		Year 99	





MISSOURI DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
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Form Approved OMB No 2050-0039

Use print or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MO009815805164177012	Manifest Document No.	2. Page of	Information in the shaded areas is required by State law.	
3. Generator's Name and Mailing Address Rosae Lithographing 2100 Wyandotte K.C., MO 64108			A. Missouri Manifest Document Number 012094			
4. Generator's Phone () 816-842-4660			B. G.S.I. (Gen. Site Address)			
5. Transporter 1 Company Name Able Transportation			C. MO Trans. ID 11-1942			
6. US EPA ID Number 15-111855-17444			D. Transporter's Phone 800-776-1339			
7. Transporter 2 Company Name			E. MO Trans. ID			
8. US EPA ID Number			F. Transporter's Phone			
9. Designated Facility Name and Site Address MEI-MO 1100 Industrial Parks Drive Scott City, MO 63780			G. State Facility's ID 003270			
10. US EPA ID Number 15-111855-016020151			H. Facility's Phone 773-631-3444			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))		12. Containers Number Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.	
a. Combustible Liquid, N.O.S. (Petroleum Distillates) Combustible Liquid, UN 1993, PG III ERG#128					EPA WASTE CODE IN 01 NF	
b. Combustible Liquid, N.O.S. (Petroleum Distillates) Combustible Liquid, UN 1993, PG III ERG#128		1 DM	55		EPA WASTE CODE IN 01 NF	
c. Non-RCRA Regulated Machine Oil Used oil		13 DM	723	G	EPA WASTE CODE IN 01 NF	
d. Non-Regulated Etching Solution Ask Hank Gencas. It's Doll (Jimmie)		2 DM	110	G	EPA WASTE CODE IN 01 NF	
1. Additional Descriptions for Materials Listed Above		K. HANDLING CODE (FACILITY USE ONLY)				
C3066-01		INTERIM FINAL COMMENTS				
C3066-02 Dampening Solution						
C3066-03						
C3066-04 Etching						
15. Special Handling Instructions and Additional Information 24 Hour Emergency Contact 516-342-4467 Trailer License Plate # 170-758 MO C3066-01-09						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.						
Printed/Typed Name CCW Cochran		Signature <i>[Signature]</i>		Month Day Year 11/27/97		
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Rick Tidwell		Signature <i>[Signature]</i>		Month Day Year 11/27/97		
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature		Month Day Year		



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

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INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
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Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M00D985805464		Manifest Document No. 00027		2. Page 1 of 1		Information in the shaded areas is required by State law.					
3. Generator's Name and Mailing Address ROSSE LITHOGRAPHING CO. 2100 Wyandotte, Kansas City, MO 64108				A. Missouri Manifest Document Number 0, 1, 2, 0, 9, 6, 00027									
4. Generator's Phone (816) 842-4669				B. G.S.I. (Gen. Site Address) SAME									
5. Transporter 1 Company Name Nortru Transportation Group				6. US EPA ID Number M00D01211087275		C. MO. Trans. ID H-1749MIRJ5066		D. Transporter's Phone 313 824-5840					
7. Transporter 2 Company Name				8. US EPA ID Number		E. MO. Trans. ID		F. Transporter's Phone					
9. Designated Facility Name and Site Address Solvent Recovery Corporation 716 Mulberry Kansas City, MO 64101				10. US EPA ID Number M00D0000610766		G. State Facility's ID RR0019		H. Facility's Phone 816 474-1391					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))						12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol.		I. Waste No.	
a. RO, WASTE PETROLEUM DISTILLATES, N.O.S., 3, UN1268, PG II, ER# 128, (EPA D001) Blanket wash						005DM		0027.7G				EPA WASTE CODE D, 0, 0, 1 STATE N, O, N, E	
b. NON REGULATED MATERIAL, Ink						004DM		00230G				EPA WASTE CODE N, O, N, E STATE D, 0, 9, 9	
c.												EPA WASTE CODE STATE	
d.												EPA WASTE CODE STATE	
J. Additional Descriptions for Materials Listed Above						K. HANDLING CODE (FACILITY USE ONLY)							
a. D001 SG=0.90 #015334						a. S, O, I		T, 5, 0		COMMENTS			
b. D099 SG=0.80 #015333						b. S, O, I		T, 5, 0					
c.						c.							
d.						d.							
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: 816-842-4669						RETURN WASTE TO GENERATOR IF UNDELIVERABLE							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.													
Printed/Typed Name Cody Cochran						Signature Cody Cochran						Month Day Year 11/10/99	
17. Transporter 1 Acknowledgement of Receipt of Materials												Date	
Printed/Typed Name DEBORAH GREEN						Signature Deborah Green						Month Day Year 11/10/99	
18. Transporter 2 Acknowledgement of Receipt of Materials												Date	
Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space													
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name Ann Flynn						Signature Ann Flynn						Month Day Year 11/10/99	

HAZARDOUS WASTE MANIFEST

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INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
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Form Approved OMB No. 2050-0039. Expires 9-30-99

print or type (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M O D 9 8 5 8 0 5 4 6 4 100002		Manifest Document No. 100002		2. Page 1 of 1		Information in the shaded areas is required by State law.					
3. Generator's Name and Mailing Address ROSSE LITHOGRAPHING CO. 2100 Wyandotte, Kansas City, MO 64108						A. Missouri Manifest Document Number 0, 1, 2, 0, 9, 6, 0002							
4. Generator's Phone (816) 842-4669						B. G.S.I. (Gen. Site Address) SAME							
5. Transporter 1 Company Name Nortru Transportation Group						C. MO. Trans. ID H-1749 MIR 5066							
6. US EPA ID Number M I D 0 2 1 1 0 8 7 2 7 5						D. Transporter's Phone 313 824-5840							
7. Transporter 2 Company Name						E. MO. Trans. ID							
8. US EPA ID Number						F. Transporter's Phone							
9. Designated Facility Name and Site Address Solvent Recovery Corporation 716 Mulberry Kansas City, MO 64101						G. State Facility's ID RR0019							
10. US EPA ID Number M O D 0 0 0 6 1 0 7 6 6						H. Facility's Phone 816 474-1391							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))						12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.	
a. RQ, WASTE PETROLEUM DISTILLATES, N.O.S., 3, UN1268, PG II, ER# 128, (EPA D001)						005 DM 00275 G						EPA WASTE CODE D 0 0 1 STATE N O N E	
b. NON REGULATED MATERIAL, ,						004 DM 00220 G						EPA WASTE CODE N O N E STATE D 0 9 9	
c.												EPA WASTE CODE STATE	
												EPA WASTE CODE STATE	
J. Additional Descriptions for Materials Listed Above						K. HANDLING CODE (FACILITY USE ONLY)							
a. D001 SG=0.90 #015334						S O I		T 5 0		COMMENTS			
b. D099 SG=0.80 #015333						S O I		T 5 0					
c.													
d.													
15. Special Handling Instructions and Additional Information EMERGENCY CONTACT: 816-842-4669						RETURN WASTE TO GENERATOR IF UNDELIVERABLE							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.													
Printed/Typed Name Cody Cochran						Signature Cody Cochran						Month Day Year 11/10/99	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name DEBORAH GREEN						Signature Deborah Green						Month Day Year 11/10/99	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space													
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name Ann Flynn						Signature Ann Flynn						Month Day Year 11/10/99	



HAZARDOUS WASTE MANIFEST

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EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
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Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MOD9805404		Manifest Document No. 188004		2. Page 1 of 1		Information in the shaded areas is required by State law.					
3. Generator's Name and Mailing Address Rosce Lithographing 2100 Wyandotte Kansas City, MO 64108						A. Missouri Manifest Document Number 012096							
4. Generator's Phone () (816) 842-4669						B. G.S.I. (Gen. Site Address) SAME							
5. Transporter 1 Company Name Able Transportation						C. MO. Trans. ID H-1982							
6. US EPA ID Number MOD985817444						D. Transporter's Phone 1-800-776-1339							
7. Transporter 2 Company Name						E. MO. Trans. ID							
8. US EPA ID Number						F. Transporter's Phone							
9. Designated Facility Name and Site Address MEI-MO 3100 Industrial Fuels Drive Scott City, MO 63780						G. State Facility's ID 003279							
10. US EPA ID Number MOD980632954						H. Facility's Phone (573) 651-3444							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))						12. Containers Number Type		13. Total Quantity		14. Unit Wt/Vol.		I. Waste No.	
a. Waste Flammable Liquid, N.O.S. (Petroleum Distillates) <i>Blanket</i> 3, Unl993, PG III, RQ-(D001) ERG# 128 <i>Wash</i>						287 DM		385 G				EPA WASTE CODE D001 STATE NONE	
b. Waste Petroleum Distillates, N.O.S. (Petroleum Distillates) 3, UN1268, PG II, RQ-(D001) ERG# 128						10 DM						EPA WASTE CODE D001 STATE NONE	
c. Non RCRA Regulated Machine Oil						0 DM						EPA WASTE CODE NONE STATE NONE	
Non-Regulated Etching Solution						0 DM						EPA WASTE CODE NONE STATE NONE	
J. Additional Descriptions for Materials Listed Above						K. HANDLING CODE (FACILITY USE ONLY)							
a. C3066-02 sp.gr.= 0.87						a. SO1		TSO		COMMENTS			
b. C3066-07						b. SO1							
c. C3066-03						c. SO1							
d. C3066-04						d. SO1							
15. Special Handling Instructions and Additional Information Emergency Phone # 816-842-4669 Trailer License Plate # 970-788-MO C3066-02-99													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.													
Printed/Typed Name Cody Cochran						Signature Cody Cochran				Month Day Year 12/08/99			
17. Transporter 1 Acknowledgement of Receipt of Materials										Date			
Printed/Typed Name Rick Tidwell						Signature Rick Tidwell				Month Day Year 12/08/99			
18. Transporter 2 Acknowledgement of Receipt of Materials										Date			
Printed/Typed Name						Signature				Month Day Year			
19. Discrepancy Indication Space 1. MOD98505404													
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name Brent Fisker						Signature Brent Fisker				Month Day Year 12/10/99			



HAZARDOUS WASTE MANIFEST

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INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
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Please print or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

MOD985805404

Manifest
Page 1 of 1

Information in the shaded areas
is required by State law.

3. Generator's Name and Mailing Address

Rosse Lithographing
2100 Wyandotte

Kansas City, MO 64108

A. Missouri Manifest Document Number

012096

0005

4. Generator's Phone ()

(816) 842-4669

B. G.S.I. (Gen. Site Address)

5. Transporter 1 Company Name

Able Transportation

6. US EPA ID Number

MOD985817444

C. MO. Trans. ID

SAME

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone

1-800-776-1339

9. Designated Facility Name and Site Address

MEI-MO

3100 Industrial Fucks Drive

Scott City, MO 63780

10. US EPA ID Number

MOD980612954

E. MO. Trans. ID

F. Transporter's Phone

G. State Facility's ID

003279

H. Facility's Phone

(573) 651-3444

11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))

12. Containers

Number Type

13. Total
Quantity

14. Unit
Wt/Vol.

I. Waste No.

a. Non-Regulated Color Wash "Blanket wash w/locker"

0 DM

EPA WASTE CODE
NONE

STATE
NONE

b. Non-Regulated Water-Based Coating Aqueous Coating
Coat paper with

205 DM 100 G

EPA WASTE CODE
NONE

STATE
NONE

c. Non-Regulated Paste Ink Spirit Ink

203 DM 165 G

EPA WASTE CODE
NONE

STATE
NONE

J. Additional Descriptions for Materials Listed Above

K. HANDLING CODE (FACILITY USE ONLY)

INTERIM FINAL

COMMENTS

a. C3066-05

a. S01

b. C3066-06

b. S01

c. C3066-08

c. S01

d.

d.

15. Special Handling Instructions and Additional Information

Emergency Phone # 816-842-4669

Trailer License Plate # 970-788-MO

C3066-02-99

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name

Cosy Cochran

Signature

Cosy Cochran

Month Day Year

12 08 99

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Rick Tidwell

Signature

Rick Tidwell

Month Day Year

12 08 99

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

12 08 99

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Bert Hshcraft

Signature

Bert Hshcraft

Month Day Year

12 10 99





STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY
Hazardous Waste Program
P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176

HAZARDOUS WASTE MANIFEST

THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8802	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-634-2436
-----------------------	------------------------------------	-----------------------------	---

least 14 point or type (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MOD985805404		Manifest Document No. 100006		2. Page 1 of 1		Information in the shaded areas is required by State law.	
3. Generator's Name and Mailing Address Rosse Lithographing, Co. 2100 Wyandotte Kansas City, MO 64108 (816) 842-4669		6. US EPA ID Number MDR000038406		A. Missouri Manifest Document Number 012096 0006		B. G.S.I. (Gen. Site Address) SAME		C. MO. Trans. ID H-2308(06-584-MO)	
4. Generator's Phone ()		8. US EPA ID Number		D. Transporter's Phone (816) 850-6810		E. MO. Trans. ID		F. Transporter's Phone	
5. Transporter 1 Company Name Elite Environmental		10. US EPA ID Number MOD980632954		G. State Facility's ID 003579		H. Facility's Phone (573) 651-3444			
7. Transporter 2 Company Name		9. Designated Facility Name and Site Address MEI-MO 3100 Industrial Fuels Drive Scott City, MO 63780		12. Containers Number Type 008 DM 004 DM 001 DM		13. Total Quantity 00440 00220 00220		14. Unit Wt/Vol. G G G	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))		I. Waste No. D001 NONE NONE NONE NONE		EPA WASTE CODE NONE NONE NONE NONE NONE		STATE NONE NONE NONE NONE NONE			
a. Waste Flammable Liquid, N.O.S. (Petroleum Distillates) 3, UN 1993, PG III, RQ-(D001) ERG# 128 "Blanket wash" w/ water		b. Non-Regulated Paste Ink Spent ink		c. Non-Regulated Paste Ink Expired ink product					
J. Additional Descriptions for Materials Listed Above		K. HANDLING CODE (FACILITY USE ONLY)		INTERIM		FINAL		COMMENTS	
a. C3066-02 8/55 = 10-11-12-13-14-18-19-20 Detergent		a. S01		T510					
b. C3066-08 4/55 = 6-7-8-9		b. S01		T103					
c. C3066-08 1/220 - cardboard Box = #5		c.		T103					
d.		d.							
15. Special Handling Instructions and Additional Information Emergency Phone # - (800) 424-9300 Trailer License Plate # 06584 MO C3066-01-00									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.									
Printed/Typed Name X SHELLEY MARTIN		Signature X Shelley Martin		Month 10		Day 05		Year 1990	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Ralph E. Hayes Jr on Behalf of Elite		Signature Ralph E Hayes Jr on Behalf of Elite		Month 05		Day 09		Year 1990	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month		Day		Year	
19. Discrepancy Indication Space									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Tom J Brant		Signature Tom J Brant		Month 10		Day 10		Year 1990	

MISSOURI DNR FINAL COPY - PART 1

THIS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED
FACILITY THEN TRANSMITTED TO THE DEPARTMENT BY THE GENERATOR.

MEI-MO
A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

October 15, 1999

Quote Number
rosse.99.est

Cody Cochran
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

RE: Estimated Disposal Pricing - Drums/Transportation

Dear Mr. Cochran:

MEI-MO, Inc. is pleased to provide this estimate for the transportation of your hazardous and/or non-hazardous waste.

The following estimated pricing is provided for your consideration:

WASTE STREAM NAME

ESTIMATED COST

LNL - if non-hazardous
Combustible Liquid

\$ 80.00 / 55 gallon drum
\$ 55.00 / 55 gallon drum

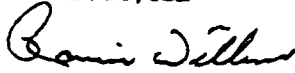
ADDITIONAL COSTS

Transportation
Demurrage

\$ 150.00 non - dedicated
\$ 75.00 / hour after one free hour.

MEI-MO appreciates the opportunity to provide this quotation. Please contact MEI-MO, Inc. at (573) 651-3444, with any questions.

Sincerely,
MEI-MO, Inc.


Ronnie Williams
Account Representative

1.26.98

ATTACHMENT B Page 1 of 2

7/3/2000

*ISO 9000 requires outside vendor guidelines
Internal Certification required.

4/98 - started generating

~~14-10~~ dense signed accumulation

Had been here ~ 10 months - 12 months based on 1st generation
11/98

~~350 ft~~ $\Rightarrow 173 \text{ kg}$
55-gal

Based on $\frac{1}{4}$ drum grinded per month $\Rightarrow \frac{1}{6}$ drums
for 2 months
from.

2 months of generation

@ 1.5 drums/mo
 12/98 1.5 } 270 days
 1/99 3.0 } ⇒ 9/99
 2/99 4.5 } 10/99
 3/99 6.0 Late 3/99 } 11/99
 4/99 7.5 } Present 6/99
 5/99 9.0 } " " 7/99
 6/99 10.5 } 8/99
 7/99 12 } 9/99
 8/99 13.5 } 10/99
 9/99 15 } 11/99
 -5 ⇒ 10 on site

4* drums stored
 3-1 mo too long

LQG
 Shipped 9/99 & 10/99
 3-4 months, 5 ~~drums~~ drums

10/27

546
 180 days < 200 miles
 270 days; 7200 miles ← Seattle City

LQG
 90 days

☐ Weekly
☐ EOW
☐ E4W

QUALITY



SERVICE

TOWEL & UNIFORM SERVICE
SALE/RENTAL AGREEMENT

8078

2601 Truman Road
Kansas City, MO 64127
(816) 231-0300

Route # 5
Date Promised _____
☒ Chrg. ☐ C.O.D.

Stop # 7898
This Agreement made this date of Sept. 3, 19 79 made between Walker Towel & Uniform Service hereafter called

Customer Name Russe Lithographing Co.

Address 2100 Wyandotte, Kc Mo. 64108
City State Zip

hereafter called the customer.

PHONE NO. _____

DELIVERY

MON.	TUE.	WED.	THUR.	FRI.
				<input checked="" type="checkbox"/>

KIND OF GARMENT

A

B

ITEM DESCRIPTION	NO. OF PERSONS	CHANGES PER WEEK	WEEKLY CHARGE	TOTAL WEEKLY CHARGE
<u>Industrial Shirts/Pants</u> <u>And other Rental Items</u>			<u>approx</u>	<u>466.01</u>

EMPLOYEE'S NAME	QUAN.	Type of Garment and Color	Shirt Size	Pant Size	Shopcoat Size	Coverall Size	Emblem	Weekly Charge
(1) man in Rental Uniform @ 13/6 @				X	no initial startup			7.41
(1) man in Rental Uniform @ 15/7 @				X	Cost on Company			8.10
(10) men in Rental Uniform @ 11/5 @ 5.94 ea				X	emblem on prep. for			59.40
(1) man in Rental Uniform @ 11/5 @				X	30 day. after 30 day			6.12
(1) man in Rental Uniform @ 11/5 @				X	from install, a Cost			6.27
(1) man in Lease Uniform @ 5 sets @				X	of \$2.50 per Company			3.15
(2) men in Lease Uniform @ 5 sets @ 3.00				X	emblem and 94.50			6.00
(1) man in Lease Uniform @ 5 sets @ 11/5 K				X	prep will go into			2.65
(10) men in Lease Uniform @ 5 sets @			2.15	X	affect on all addmen			30.10
(6) men in Lease Garments @			2.00	X				12.00
(1) Man in Lease Uniform shirts only @				X				1.00

SIZE	CODE	PRICE	QUANTITY	1st del.	2nd del.	REPL CHARGE	
39 Men in Uniform							
SHOP TOWELS	18x30	1530	.065	5000	4000	4000	300.00
WALKOFF MATS	3x5	1715	2.25	8	4	4	9.00
	3x10		4.00	8	4	4	16.00
DUST CONTROL							
EEC		8888					467.20
OTHER							

Charges will be made for preparation of additional orders, names and emblems.

TOTAL

1. Agreement to Supply. Supplier agrees to supply and Customer agrees to accept exclusively from Supplier, during the term of this Agreement and any extensions or renewals hereof, all of Customer's requirements for the type of merchandise, equipment and services listed above at the prices there stated. If Customer requests additional amounts or types of merchandise, equipment or services, such additional merchandise, equipment or services will be covered by this Agreement and will be subject to the terms and conditions set forth herein.

2. Prices. The prices and pricing method for items listed are stated above. Minimums or prices are subject to change if inventory increases or decreases. However, a decrease in the number of Customer's employees will not decrease the weekly service charge unless an employee terminates his employment and Customer returns the full number of garments issued to him. All prices are based on 52 weeks per year service, if any, ~~minimum 500~~ increase per year. OR 30 DAY NOTICE OF INCREASE

3. Suppliers Guarantee. Supplier guarantees that it will (a) Repair and return to the customer, all garments in need of repair (b) Return all merchandise in a useable condition. (c) Return all merchandise picked up for cleaning the following scheduled delivery day; and (d) Deliver all addmen requesting standard size and color received on a regular delivery day. If supplier fails to meet the guarantees listed above, the customer will be entitled to a credit equal to the weekly charge for the non-conforming item. Supplier's failure to meet the above guarantees will not entitle the Customer to cancel this Agreement.

4. Effective Date. This agreement takes effect as of the date of signing until a date sixty ~~(60)~~ months from the date of installation.

THE UNDERSIGNED CUSTOMER UNDERSTANDS AND ACCEPTS THE TERMS OF THE SERVICE AGREEMENT PRINTED ABOVE AND ON THE REVERSE

Salesman's Signature Beck Coulter Signed [Signature] Title Production Mgr

Accepted By _____ ATTACHMENT Date Sept. 3, 1979

**FAX**

816-842-7525

2100 Wyandotte
Kansas City, MO
6 4 1 0 8

Facsimile Transmission Cover Sheet

Date 9-12-00Number of Pages 3To: ALMA MORENO LAHMCompany: EPA REGION VIIFax Number: 913-551-8752From: HANIC ROSEBROUGH

If you did not receive all the pages, please call us at
816-842-4669

Remarks/Instructions: ALMA, THE MAN AT THE LIGHTING
PLACE HAS TOLD ME THAT THESE ARE RATED AS INDUSTRIAL
"LAMPS" AND ARE NOT CONSIDERED "LIGHTING". HE
SENT ME A GENERIC MSDS BUT THOUGHT THEY WERE
CLASSED DIFFERENTLY FOR SOME REASON. PLEASE
ADVISE.

Thank You.

Our Goal Is Delighted Customers!

ATTACHMENT 21 Page 1 of 3



PHILIPS

Philips Lighting

MATERIAL SAFETY DATA SHEET

PRODUCT: Standard Fluorescent - Triphosphor Coating

SECTION 1 MANUFACTURER

Manufacturer's Name and Address: Philips Lighting Company
 A Division of Philips Electronics
 North America Corporation
 200 Franklin Square Drive
 P. O. Box 6800
 Somerset, N. J. 08875

Emergency Telephone No.: (908) 563-3197
Other Information Calls: (908) 563-3103

SECTION 2 HAZARDOUS INGREDIENTS

	OSHA PEL	ACGIH TLV	APPROX. WT. %
Phosphor powder nuisance dust	15mg/m ³	10mg/m ³	2.5%
*cerium terbium magnesium aluminate	N/A	10mg/m ³	.25%
*barium magnesium aluminate	N/A	10mg/m ³	.5%
*yttrium oxide	1.0mg/m ³	1.0mg/m ³	.5%
*antimony	.5mg/m ³	.5mg/m ³	.01%
*manganese	5mg/m ³	5mg/m ³	.02%
Mercury (7439-97-6)	.05mg/m ³	.05mg/m ³	.02%

* PEL + TLV are given for magnesium, aluminum oxide, yttrium, antimony and manganese. Barium aluminate is not a soluble compound. Antimony and Manganese are bound within a calcium phosphate crystal matrix.

SECTION 3 PHYSICAL CHEMICAL CHARACTERISTICS

Not applicable. This item is a light bulb. Up to 8 foot long and 1.25 inches in diameter.

Philips Lighting Company

A Division of Philips Electronics North America Corporation
 200 Franklin Square Drive • P.O. Box 6800
 Somerset, New Jersey 08875-6800



ATTACHMENT 21 Page 2 of 3

SECTION 4 FIRE AND EXPLOSION DATA

Not Applicable. Under extreme heat glass tube might melt or crack.

SECTION 5 REACTIVITY DATA

Stability: Lamp is stable
Incompatibility: Glass will react with Hydrofluoric Acid
Polymerization: Not applicable

SECTION 6 HEALTH HAZARD DATA

Breakage of this lamp may result in some exposure to the phosphor powder dust and to elemental mercury vapor. The phosphors contain aluminates, phosphates and an oxide. No adverse affects are expected from occasional exposure to broken lamps, but as a matter of good practice, prolonged or frequent exposure should be avoided through the use of adequate ventilation during disposal of large quantities of lamps.

EMERGENCY AND FIRST AID PROCEDURE: Normal first aid procedure for glass cuts if such occur through lamp breakage.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

Normal precautions should be taken for collection of broken glass.

WASTE DISPOSAL METHOD: Under the new Toxicity Characteristic Leachate Procedure (TCLP) promulgated by the U.S. Environmental protection Agency (EPA), tests of used or spent fluorescent, incandescent, and high intensity discharge lamps indicate that some types of these lamps may be classified as characteristic hazardous waste. Notably, the TCLP test results for fluorescent lamps vary tremendously from laboratory to laboratory and appear to be dependent on lamp operating conditions or burning time. Lamps from all manufacturers exhibit the same phenomena. The National Electrical Manufacturers Association (NEMA) is working closely with the EPA for clarification and guidance. Small numbers of these lamps placed in ordinary trash may not appreciably affect the method of lamp disposal. If spent lamps are added to other regulated wastes or disposed in large quantities, disposal of lamps may be regulated. Customers should review their waste handling practices to assure that they are properly disposing of waste lamps.

SECTION 8 CONTROL MEASURES

Respiratory Protection: Appropriate dust mask should be used if large volumes of lamps are being broken for disposal.

Ventilation: Avoid inhalation of any airborne dust.
Provide local exhaust when disposing large quantities of lamps.

Hand and Eye Protection: Appropriate hand and eye protection should be worn when disposing of lamps or handling broken glass.

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

January 12, 2000


Cody Cochran
Rosse Lithographing Co.
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-08	Non-Regulated Paste Ink	NONE
C3066-06	Non-Regulated Aqueous Coating	NONE

Authorized Signature: _____


Laura D. Bray
Technical Services Supervisor

FROM :

FAX NO. :

Dec. 08 1999 08:45AM P3

MEI - MO

A division of Millennium Environmental, Inc.

WASTE PROFILE

3100 Industrial Fuels Drive • Scott City, MO 63780 • (573) 851-3444 Fax (573) 851-3821

Profile # C3066-08	Date Approved: 11/2/00	Tech Approval 88
Process Code:	Final Handling Code:	Rep. # 03
Recertification Dates:		

A. General Information

Generator Name:

Facility Address:

Mailing Address:

Generator USEPA I.D.

Technical Contact:

Phone #:

816-842-4669

MO I.D.

Fax #:

816-842-7525

B. Bill To:

Company Name:

Address:

City, State, Zip:

Contact:

Phone #:

Fax #:

Name of Waste:

Process Generating Waste:

C. Chemical Composition (Totals must add up to 100%)

WATER CONTENT

Paste Ink

0-2

98-100

Color:

Dark

Odor: ☐ None ☒ Mild☐ Strong

Describe: Ink

Physical State at 70° F:

☐ Solid☐ Liquid☒ SludgepH: ☐ ≤ 2.0☒ 2.1-12.4☐ ≥ 12.5

Heat Content:

BTU/gal

> 14,000 BTU/lb

Weight:

Lbs/Gal

Specific Gravity 6.69

Layers:

☐ Multilayered☒ Bi-Layered☐ Single Phased

Free Liquids:

☒ Yes☐ No

Volume 30 %

Viscosity:

☐ Low☒ Medium☐ High

Flash point °F:

☐ < 100°☐ 100°-140°☒ > 200°☐ 140°-200°

Halogens:

< 0.5 % Weight

TOTAL

100%

E. Other Components - Total (PPM)

Cyanides:

ND

PCB's:

ND

Sulfides:

ND

F. Shipping Information

DOT Hazardous Material?

☐ Yes ☒ No

Proper Shipping Name:

Non PCB Not DOT Regulated

DOT Hazard class:

NA ID No. UNNA NA PG NA

RD

NA

ERG#

NA

Is this a hazardous waste as defined by 40 CFR 261?

☐ Yes☒ No

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?

☐ Yes☒ No

If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

non regulated paste ink

G. Metals

Total (PPM)

Arsenic

Barium

Beryllium

Cadmium

Chromium

Mercury

Lead

Selenium

Silver

Copper

Nickel

Zinc

H. Hazardous Characteristics

Reactivity:

☒ None☐ Explosive☐ Pyrophoric☐ Water Reactive☐ Shock Sensitive☐ Other

Other Hazardous Characteristics:

☐ None☐ Radioactive☐ Etiological☐ Pesticide Mfg Waste☐ Other

USEPA hazardous codes: NA

J. Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile date, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize MEI - MO and/or its representative (s) to make corrections to this profile which

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

January 12, 2000

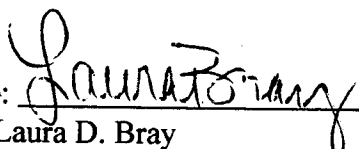
Cody Cochran
Rosse Lithographing Co.
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-08	Non-Regulated Paste Ink	NONE
C3066-06	Non-Regulated Aqueous Coating	NONE

Authorized Signature: _____


Laura D. Bray
Technical Services Supervisor

MEI - MO

A Division of Millennium Environmental, Inc.

WASTE PROFILE

3100 Industrial Fuels Drive • Scott City, MO 63780 • (573) 651-3444 Fax (573) 651-3821

Profile # C3066-CP	Date Approved:	Tech Approval
Process Code:	Final Handling Code:	Rep. # 03
Recertification Dates:		

A. General Information

Generator Name: Rosse Lithographing

Facility Address: 2100 Wyandotte

Mailing Address: Kansas City MO. 64108

Generator USEPA I.D. MO 0985 805464

Technical Contact: Cody Cochran MO I.D. 012096

Phone #: 816 842-4669 Fax #: 816-842-7525

B. Bill To:

Company Name: Same

Address: "

City, State, Zip: "

Contact: "

Phone #: " Fax #: "

Name of Waste: Water based coolant/Alcous coating

Process Generating Waste:

C. Chemical Composition (Totals must add up to 100%)

WATER CONTENT		
Coolant		70-80 20-25
TOTAL		100%

D. Physical Characteristics of Waste

Color:	Odor: <input type="checkbox"/> None <input checked="" type="checkbox"/> Mild <input type="checkbox"/> Strong	Physical State at 70° F: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> _____
<i>Cream</i> pH: <input type="checkbox"/> ≤ 2.0 <input checked="" type="checkbox"/> 2.1-12.4 <input type="checkbox"/> ≥ 12.5	Heat Content: <i>ND</i> _____ BTU/gal _____ BTU/lb	Weight: _____ Lbs/Gal Specific Gravity: <i>.98</i>
Layers: <input type="checkbox"/> Multilayered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phased	Free Liquids: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume _____ %	Viscosity: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High
Flash point °F: <input type="checkbox"/> <100° <input type="checkbox"/> 140°-200° <input type="checkbox"/> 100°-140° <input checked="" type="checkbox"/> >200°	Halogens: <i>ND</i> _____ % Weight	

E. Other Components - Total (PPM)

Cyanides: NT	PCB's: ND	Sulfides: NT
--------------	-----------	--------------

F. Shipping Information

DOT Hazardous Material? ☐ Yes ☒ No
Proper Shipping Name: Non Hazardous material
Not DOT Regulated
DOT Hazard class NA ID No. UN/NA NA PG NA
RQ NA ERG# NA

Is this a hazardous waste as defined by 40 CFR 261?

☐ Yes ☐ No

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?

☐ Yes ☒ No If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

non regulated aqueous
coating

G. Metals ■ **Total (PPM)**

POLY (P.P.M.)	
<div> <div> <div>Arsenic</div> <div>Barium</div> <div>Beryllium</div> <div>Cadmium</div> <div>Chromium</div> <div>Mercury</div> </div> <div> </div> </div>	<div> <div> <div>Lead</div> <div>Selenium</div> <div>Silver</div> <div>Copper</div> <div>Nickel</div> <div>Zinc</div> </div> <div> </div> </div>

H. Hazardous Characteristics

[illegible]

J. Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile data, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize MEI - MO and/or its representative (s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

ATTACHMENT 22 Page 4 of 4



MISSOURI DEPARTMENT OF NATURAL RESOURCES
HAZARDOUS WASTE PROGRAM
P.O. BOX 176
JEFFERSON CITY, MISSOURI 65102
(573) 751-3176

GENERATOR'S HAZARDOUS WASTE SUMMARY REPORT - PART I

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

ROSSE LITHOGRAPHING CO.
CONTACT: BRIAN GLOE
2100 WYANDOTTE (2ND FLOOR)
KANSAS CITY, MO 64108

EPA ID# MOD985805464 MO ID# 021096

NOTE: THE FEDERAL EPA AND MISSOURI GENERATOR I.D. NUMBERS ARE ASSIGNED EXCLUSIVELY TO THE SITE WHERE WASTE IS PRODUCED. YOU MUST NOTIFY THE DEPARTMENT IF THE ADDRESS FOR THE SITE OF GENERATION CHANGES.

NOTE ► PLEASE READ INSTRUCTIONS AND EITHER PRINT OR TYPE

SECTION A - REPORT IDENTIFICATION

1. TYPE OF REPORT (CHECK ONE)

☐ QUARTERLY

☒ ANNUAL 6 - 30 - 97-98 (YEAR)

2. FOR THE PERIOD ENDING (CHECK ONE & FILL IN YEAR)

☐ 9-30-____ (YEAR)

☐ 12-31-____ (YEAR)

☐ 3-31-____ (YEAR)

☐ 6-30-____ (YEAR)

3. PAGE

1 OF ____

SECTION B - GENERATOR IDENTIFICATION

NOTE: Any change in either the mailing or site address from previous reports requires renotification to the Department.

4. GENERATOR'S NAME ☒ SAME AS LABEL

5. GENERATOR CONTACT PERSON (NAME) ☒ SAME AS LABEL

TELEPHONE NUMBER

6. MAILING ADDRESS

CITY

STATE

ZIP CODE

7. PLANT SITE ADDRESS ☒ SAME AS LABEL

CITY

STATE

ZIP CODE

8. NAME OF PARENT FIRM

OFFICE USE ONLY

SECTION C - STATUS OF WASTE GENERATED (CHECK ONE)

9. ☐ SHIPPED OFF-SITE. Complete part 2, attach completed hazardous waste manifests, sign certification and transmit to the department.

10. ☒ REPORTABLE QUANTITY NOT GENERATED. Sign certification and transmit to the department. (Do not complete Part 2)

11. ☐ REPORTABLE QUANTITY GENERATED BUT NOT SHIPPED OFF-SITE THIS QUARTER. Sign certification and transmit to the department. (Do not complete Part 2)

SECTION D - COMMENTS

12. We dispose of waste ink via Essex Waste Management Svcs. Inc. Copies of our manifests are attached. Per Essex, see manifest, the ink shows no RCRA characteristics.

SECTION E - CERTIFICATION STATEMENT

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

PRINT NAME

Rosse Lithographing Company
by Brian Gloe CO-CEO

SIGNATURE

Brian Gloe

DATE

5-1-98

24167

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.
M O D 9 8 5 8 0 5 4 6 4

Manifest
Document No.
97784

2. Page 1
of 1

PRE-[02600][01]

3. Generator's Name and Mailing Address
Rosse Lithographing
2100 Wyandotte St.
Kansas City, MO 64108
4. Generator's Phone 816 842-4669

5. Transporter 1 Company Name
Essex Waste Management Inc.

US EPA ID Number
M O D 9 8 0 9 6 2 8 4 9

A. Transporter's Phone
(816) 732-5561

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Essex Waste Management Inc.
1483 SW 58 Highway
Kingsville, MO 64061

10. US EPA ID Number
M O D 9 8 0 9 6 2 8 4 9

C. Facility's Phone
(816) 732-5561

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS,
(INK)
Approval Number [95-03440]

044PM 01:6:00 P

b.

c.

d.

D. Additional Descriptions for Materials Listed Above
11A. WASTE INK (4X55)

E. Handling Codes for Wastes Listed Above
SD1/TSD

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR.
AFTER PICKUP FAX A SIGNED MANIFEST COPY TO KRISTEL AT 816-732-6200.

TRI #69 (913-646-110)

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulation for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Kenny Johnson

Signature

Kenny Johnson

Month Day Year
4/18/97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Ralph E. Hayes Jr. on Behalf of Essex

Signature

Ralph E. Hayes Jr. on Behalf of Essex

Month Day Year
04/18/97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Chris Striver For Essex

Signature

Chris Striver For Essex

Month Day Year

10/4/21/97

23 0032 04

28212

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

M.O.D.9.8.5.8.0.5.4.6.4

Manifest
Document No.

977337

2. Page 1

of 01

PRE-[03447][01]

Generator's Name and Mailing Address

Rosse Lithographing
2100 Wyandotte St.

4. Generator's Phone
Kansas City, MO 64108
816 842-4669

5. Transporter 1 Company Name

Essex Waste Management Inc.

6.

US EPA ID Number

M.O.D.9.8.0.9.6.2.8.4.9

A. Transporter's Phone

(816) 732-5561

7. Transporter 2 Company Name

8.

US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Essex Waste Management Inc.

1483 SW 58 Highway

Kingsville, MO 64061

10.

US EPA ID Number

M O D 9 8 0 9 6 2 8 4 9

C. Facility's Phone

(816) 732-5561

11. Waste Shipping Name and Description

a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS,
(INK)

Approval Number [95-03440]

12. Containers

No.

Type

13.
Total
Quantity

14.
Unit
Wt/Vol

0100405000P

b:

c:

d:

Additional Descriptions for Materials Listed Above

11A. 10/55 = 12-21

E. Handling Codes for Wastes Listed Above

501/TS0

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR-(816) 842-4669
AFTER PICKUP FAX A SIGNED MANIFEST COPY TO KATIE AT 816-732-6200.

Essex Tel #69 (913-646-1100)

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

X GREGORY S. EDWARDS

Signature

X Gregory S. Edwards

Month

Day

Year

12 3 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Ralph E. Hayes Jr. W. Balch Essex

Signature

Ralph E. Hayes Jr. W. Balch Essex

Month

Day

Year

12 20 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month

Day

Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

B. V. Carroll

Signature

B. V. Carroll

Month

Day

Year

12 03 97

22352

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

M O D 9 8 5 8 0 5 4 6 4

Manifest
Document No.

12396

2. Page 1
of 01

PRE-[02160][011]

3. Generator's Name and Mailing Address

Rosse Lithographing
2100 Wyandotte St.
Kansas City, MO 64108

4. Generator's Phone (816) 842-4669

5. Transporter 1 Company Name

Essex Waste Management

6. US EPA ID Number

M O D 9 8 0 9 6 2 8 4 9

A. Transporter's Phone

816-732-5561

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Essex Waste Management Inc.
1483 SW 58 Highway
Kingsville, MO 64061

10. US EPA ID Number

M O D 9 8 0 9 6 2 8 4 9

C. Facility's Phone

(816) 732-5561

11. Waste Shipping Name and Description

a. NOT DOT REGULATED/SHOWS NO RCRA CHARACTERISTICS,
(INK)

Approval Number [95-03440]

12. Containers

No. Type

13. Total
Quantity

14. Unit
Wt/Vol

009 DM 4500 P

b.

c.

d.

17. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

501/T50

15. Special Handling Instructions and Additional Information

IN CASE OF EMERGENCY OR IF UNDELIVERABLE CONTACT GENERATOR.
AFTER PICKUP FAX A SIGNED MANIFEST COPY TO ESSEX @816-732-6200.
ATTN: KRISTEL

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

CHARLES Bisolno

Signature

Charlie Bisolno

Month Day Year
12/3/96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Robert Eagleson

Signature

Robert Eagleson

Month Day Year
12/03/96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

George E. Carroll

Signature

George E. Carroll

Month Day Year
12/03/96

ATTACHMENT 2352 4 of 4
ORIGINAL - RETURN TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

MEI-MO
A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

October 25, 1999

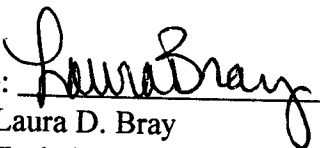
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-01	Combustible Liquid (Solvent)	None
C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	None

Authorized Signature: _____


Laura D. Bray
Technical Services Supervisor



ERD-MO, Inc.

A division of ERD WASTE CORPORATION

Waste Profile

3100 Industrial Fuel Drive • Scott City, MO 63780 • (573) 651-3444 • Fax (573) 651-3821

For Technical Use ONLY

Sales Rep:

Rennia Williams 03

Code No:

C3066-01

Process Code

Tech Approval

Date Approved

A. General Information

Generator Name:

Ross Lithographing Co.

Facility Address:

2100 Wyandotte Kc, MO 64108

Mailing Address:

Same

B. Bill To:

Company Name:

Same

Address:

City, State, Zip:

Contact:

Purchase Order #:

Phone #:

Fax #:

Generator USEPA I.D.

MO 01985805464

Technical Contact:

Cody Cochran

MO I.D.

0112096

Phone #:

816-842-4669

Fax #:

816-842-7525

Name of Waste:

SOLVENT

Process Generating Waste:

Clean up

C. Physical Characteristics of Waste

Color:

Golden

Odor: ☐ None ☒ Mild ☐ Strong

Describe:

Physical State at 70° F:

☐ Solid ☐ Sludge ☒ Liquid ☐ _____

Layers:

☐ Multilayered ☐ B/Layered ☒ Single Phased

Free Liquids:

☒ Yes ☐ No Volume 100 %

Volatility:

☐ Low ☒ Medium ☐ High

pH: ☐ ≤ 2.0 ☒ 2.1-12.4 ☐ ≥ 12.5

Heat Content:

>13,400 BTU/lb

Weight:

Specific Gravity

Flash Point °F:

☐ <100° ☐ 140°-200° ☒ 200°

Halogens:

60.30 % Weight

D. Chemical Composition (Totals must add up to 100%)

Water Content

7.1

E. Metals

Total (PPM)

TCLP (PPM)

Arsenic

Barium

Cadmium

Chromium

Mercury

Lead

Selenium

Silver

Copper

Nickel

Zinc

F. Other Components - Total (PPM)

Cyanides:

NA

PCB's

6.0

Sulfides:

NA

G. Shipping Information

DOT Hazardous Material?

☒ Yes ☐ No

Proper Shipping Name:

Combustible liquid n.o.s.

DOT Hazard Class:

Combustible PG III

ID No. UN/NA

NA1993

RQ

Method of Shipment

☐ Bulk Liquid

☒ Drum (type/size)

☐ Other

Anticipated Volume:

Gals

Other ()

Per:

☐ One Time

☐ Week

☐ Month

☐ Quarter

☒ Annual

☐ 1

H. Hazardous Characteristics

Reactivity:

☒ None

☐ Pyrophoric

☐ Shock Sensitive

☐ Explosive

☐ Water Reactive

☐ Other

Other Hazardous Characteristics:

..

☒ None

☐ Radioactive

☐ Ecological

☐ Pesticide Mtg Waste

☐ Other

Is this a hazardous waste as defined by 40 CFR 261?

☐ Yes

☐ No

USEPA hazardous codes

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?

☐ Yes

☐ No

If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

Combustible liquid, n.o.s. (Petroleum distillates)
Combustible liquid, UN1993, PG III

ERG# 128

J. Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile data, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

Generator Signature:

Title:

Date:

ATTACHED 24 12/17

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

October 25, 1999

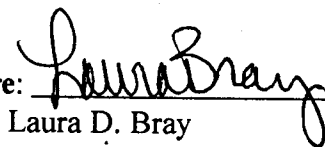
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-01	Combustible Liquid (Solvent)	None
C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	None

Authorized Signature: _____



Laura D. Bray
Technical Services Supervisor

**ERD-MO, Inc.**

A Division of ERD WASTE CORPORATION

Waste Profile

3100 Industrial Fuels Drive • Scott City, MO 63780 • (573) 851-3444 • Fax (573) 851-3821

For Technical Use ONLY

Sales Rep:

Ronnie Williams 03

Code No:

C3066-02

Process Code

SS

Tech Approval

Date Approval

10/25/99

A. General Information

Generator Name:

Rasse Lithographing Co.

Facility Address:

2100 Wyandotte Ec. MO. 64108

Mailing Address:

Same

B. Bill To:

Company Name:

Same

Address:

City, State, Zip:

Contact:

Purchase Order #:

Phone #:

Fax #:

Generator USEPA I.D.

MO I.D. 100985805464

Technical Contact:

Cody Cochran

MO I.D.

012096

Phone #:

816-842-4669

Fax #:

816-842-7525

Name of Waste:

Dampening Solution

Process Generating Waste:

Clean up

C. Physical Characteristics of Waste

Color:

Clear
BrownOdor: ☐ None ☒ Mild☐ Strong

Describe:

Physical State at 70° F:

☐ Solid☐ Sludge☒ Liquid☐ _____

Layers:

☐ Multilayered☒ B-Layered☐ Single Phased

Free Liquids:

☒ Yes☐ No

Volume

98 %

Viscosity:

☐ Low☒ Medium☐ HighpH: ☐ ≤ 2.0☒ 2.1-12.4☐ ≥ 12.5

Heat Content:

BTU/gal

13200

BTU/lb

Weight:

Lbs/Gal

Specific Gravity

Flash Point °F:

☐ < 100°☒ 100°-140°☐ > 200°

Flash Point °F:

☒ 140°-200°☐ > 200°

Halogens:

4.30 % Weight

D. Chemical Composition (Totals must add up to 100%)

Water Content

2

TOTAL

100%

E. Metals

Total (PPM)

ICLP (PPM)

Arsenic

Barium

Cadmium

Chromium

Mercury

Lead

Selenium

Silver

Copper

Nickel

Zinc

F. Other Components - Total (PPM)

Oxyides:

NA

PCB:

45.0

Solids:

NA

G. Shipping InformationDOT Hazardous Material? ☐ Yes ☐ No

Proper Shipping Name:

Combustible liquid nos.

DOT Hazard Class:

Combustible PG III

ID No. UN/NA

NA/1993

PG

Method of Shipment

☐ Bulk Liquid☒ Drum (type/size)☐ Other

Anticipated Volume:

Gals

Other ()

Per:

☐ One Time☐ Week☐ Month☐ Quarter☒ Annual☐ 1**H. Hazardous Characteristics**

Reactivity:

☒ None☐ Explosive☐ Pyrophoric☐ Water Reactive☐ Shock Sensitive☐ Other

Other Hazardous Characteristics:

☒ None☐ Radioactive☐ Pesticide Mfg Waste☐ Other

Is this a hazardous waste as defined by 40 CFR 261?

☐ Yes☐ No

USEPA hazardous codes

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?

☐ Yes☐ No

If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

Combustible Liquid, n.o.s. (Petroleum Distillates)

Combustible Liquid, UN1993, PG III, ERG #128

J. Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile data, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

Generator Signature:

Title:

Date:

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

October 25, 1999

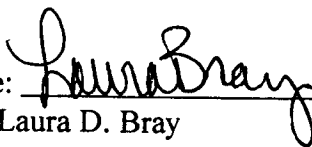
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-01	Combustible Liquid (Solvent)	None
C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	None

Authorized Signature: _____



Laura D. Bray
Technical Services Supervisor

247055012

FROM :

FAX NO. :

Oct. 22 1999 01:42PM P2

ERD-MO, Inc.

A division of ERD WASTE CORPORATION

Waste Profile

3100 Industrial Fuels Drive • Scott City, MO 63780 • (573) 651-3444 • Fax (573) 651-3821

For Technical Use ONLY

Sales Rep:

Ronnie Williams 03

Code No:

C3066-03

Process Code

SS

Approval

Date Approved

10/25/99

A. General Information

Generator Name:

Kessc Lithographing CO

Facility Address:

2100 WYANDOTTE Lk, MO. 64108

Mailing Address:

Same

B. Bill To:

Company Name:

Same

Address:

City, State, Zip:

Contact:

Purchase Order #:

Phone #:

Fax #:

Generator USEPA I.D.

MO 0985805464

Technical Contact:

MO I.D.

Cody Cochran

012096

Phone #:

816-842-4669

Fax #:

816-842-7525

Name of Waste:

Machine oil

Process Generating Waste:

Clean JP

C. Physical Characteristics of Waste

Color:

Brown

Odor: ☐ None ☒ Mild
☐ StrongPhysical State at 70° F:
☐ Solid ☐ Sludge
☒ Liquid ☐

Layers:

☐ Multilayered
☒ Bi-Layered
☐ Single Phased

Free Liquids:

☒ Yes
☐ No
Volume %

Viscosity:

☐ Low
☒ Medium
☐ HighpH: ☐ ≤ 2.0☒ 2.1-12.4☐ ≥ 12.5

Heat Content:

19400 BTU/lb

Weight:

Lbs/Gal

Specific Gravity:

Flash Point °F:

☐ <100°☐ 140°-200°☐ 100°-140°☒ >200°

Halogens:

<0.30 % Weight

D. Chemical Composition (Totals must add up to 100%)

Water Content

machine oil

<1.0
99

TOTAL

100%

E. Metals

Total (PPM)

TCLP (PPM)

Arsenic

NA

Selenium

NA

Barium

Silver

Cadmium

Copper

Chromium

Nickel

Mercury

Zinc

Lead

F. Other Components - Total (PPM)

Cyanides:

NA

PCB's:

<50

Sulfides:

NA

G. Shipping Information

DOT Hazardous Material?

☐ Yes ☒ No

Proper Shipping Name:

NON RCLRA Not DOT Regulated

DOT Hazard Class:

PG

ID No. UN/NA

RQ

Method of Shipment

☐ Bulk Liquid☒ Drum (type/size)☐ Other

Anticipated Volume:

Gals

Other ()

Per:

☐ One Time☐ Week☐ Month☐ Quarter☒ Annual☐ 8

H. Hazardous Characteristics

Reactivity:

☒ None☐ Pyrophoric☐ Shock Sensitive☐ Explosive☐ Water Reactive☐ Other

Other Hazardous Characteristics:

☒ None☐ Radioactive☐ Ecological☐ Pesticide Mfg Waste☐ Other

Is this a hazardous waste as defined by 40 CFR 261?

☐ Yes☒ No

USEPA hazardous codes

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?

☐ Yes☐ No

If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

Non-RCLRA Regulated Machine Oil

J. Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile data, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

Generator Signature:

Title:

Date:

24 Page 6 of 12

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

October 25, 1999

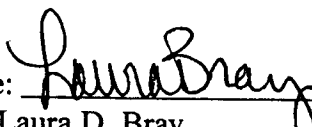
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-01	Combustible Liquid (Solvent)	None
C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	None

Authorized Signature: _____


Laura D. Bray
Technical Services Supervisor



ERD-MO, Inc.

A division of ERD WASTE CORPORATION

Waste Profile

3100 Industrial Fuels Drive • Scott City, MO 63780 • (573) 651-3444 • Fax (573) 651-3821

For Technical Use ONLY

Sales Rep: Bonnie Williams 03	Code No: C3066-04	Process Code LNL	Tech Approval JB	Date Approved 10/25/99
---	-----------------------------	----------------------------	----------------------------	----------------------------------

A. General Information

Generator Name:
Resse Lithography Co.

Facility Address:
2100 Wyandotte KCMO. 64108

Mailing Address:
Same

B. Bill To:

Company Name:
Same

Address:

City, State, Zip:

Contact:

Purchase Order #:

Phone #:

Fax #:

Generator USEPA I.D.

M | 0 | 0 | 9 | 8 | 5 | 8 | 0 | 5 | 4 | 6 | 4

Technical Contact:

Cody Cochran

MO I.D.

0 | 1 | 2 | 0 | 9 | 6

Name of Waste:

Etching

Phone #:

816-842-4669

Fax #:

816-842-2525

Process Generating Waste:

clean up

C. Physical Characteristics of Waste

Color: Green	Odor: <input type="checkbox"/> None <input checked="" type="checkbox"/> Mild <input type="checkbox"/> Strong	Physical State at 70° F: <input type="checkbox"/> Solid <input type="checkbox"/> Sludge	Layers: <input type="checkbox"/> Multilayered <input checked="" type="checkbox"/> Single Layered <input type="checkbox"/> Single Phased	Free Liquids: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Volume 99 %	Viscosity: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High
pH: <input type="checkbox"/> ≤ 2.0 <input checked="" type="checkbox"/> 2.1-12.4 <input type="checkbox"/> ≥ 12.5	Describe:	<input checked="" type="checkbox"/> Liquid <input type="checkbox"/> _____	Flash Point °F: <input type="checkbox"/> < 100° <input type="checkbox"/> 140°-200° <input checked="" type="checkbox"/> > 200°	Halogens: 40.30 % Weight	
Heat Content: 2140 BTU/lb	Weight: _____ Lbs/Gal	Specific Gravity: _____			

Chemical Composition (Totals must add up to 100%)

E. Metals

Total (PPM)

TCLP (PPM)

Arsenic	<	Selenium	<
Barium	<	Silver	8.2
Cadmium	<	Copper	<
Chromium	<	Nickel	1.2
Mercury	<	Zinc	20
Lead	<		

F. Other Components - Total (PPM)

Cyanides: NT	PCB's: < 5.0	Sulfides: NTF
---------------------	------------------------	----------------------

G. Shipping Information

DOT Hazardous Material? ☐ Yes ☒ No

Proper Shipping Name: **Non DOT Regulated H₂**

DOT Hazard Class: **PG**

ID No. UN/NA: **RQ**

Method of Shipment: ☐ Bulk Liquid ☒ Drum (type/size) ☐ Other

Anticipated Volume: _____ Gals _____ Other ()

Per: ☐ One Time ☐ Week ☐ Month ☒ Quarterly ☐ Annual **0.10m**

H. Hazardous Characteristics

Reactivity: ☒ None ☐ Pyrophoric ☐ Shock Sensitive

☐ Explosive ☐ Water Reactive ☐ Other

Other Hazardous Characteristics: **None** ☐ Radioactive ☐ Etiological

☐ Pesticide Mfg Waste ☐ Other

Is this a hazardous waste as defined by 40 CFR 261?
☐ Yes ☒ No

USEPA hazardous codes: **NA**

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?
☐ Yes ☐ No If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

Non-Regulated Etching Solution

J. Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile data, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

Generator Signature:

Title:

ATTACHED 24 pages of 12

Date:

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

October 25, 1999

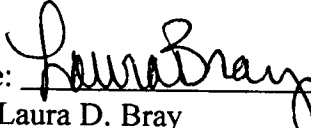
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-01	Combustible Liquid (Solvent)	None
C3066-02	Combustible Liquid (Dampening Solution)	None
C3066-03	Non-RCRA Reg. Machine Oil	None
C3066-04	Non-Regulated Etching Solution	None
C3066-05	Non-Regulated Color Wash	None

Authorized Signature: _____


Laura D. Bray

Technical Services Supervisor

FROM :

FAX NO. :

Oct. 22 1999 01:46PM P9

**ERD-MO, Inc.**

A division of ERD WASTE CORPORATION

Waste Profile

3100 Industrial Fuels Drive - Scott City, MO 63760 • (573) 651-3444 • Fax (573) 651-3621

For Technical Use ONLY

Sales Rep:

Rennick Williams 03

Code No:

C3066-05

Process Code

SS

Tech Approval

Date Approved

10/25/99

A. General Information

Generator Name:

Rosco Lithographing Co.

Facility Address:

2100 Wyandotte Kc, MO 64108

Mailing Address:

Same

B. Bill To:

Company Name:

Same

Address:

City, State, Zip:

Contact:

Purchase Order #:

Phone #:

Fax #:

Generator USEPA I.D.

MO 01985805464

Technical Contact:

Cody Cochran

MO I.D.

01120916

Phone #:

816-842-4669

Fax #:

816-842-7525

Name of Waste:

Color wash

Process Generating Waste:

clean up

C. Physical Characteristics of Waste

Color:

Yellow

Odor: ☐ None ☒ Mild☐ Strong

Describe:

Physical State at 70° F:

☐ Solid ☐ Sludge☒ Liquid ☐

Layer:

☐ Multi-layered☒ Bi-layered☐ Single Phased

Free Liquids:

☒ Yes☐ No

Volume 98 %

Viscosity:

☐ Brook☒ Medium☐ HighpH: ☐ ≤ 2.0☒ 2.1-12.4☐ ≥ 12.5

Heat Content:

BTU/gal

17000

BTU/lb

Weight:

Lbs/Gal

Specific Gravity:

Flash Point °F:

☐ < 100°☐ 140°-200°☐ 100°-140°☒ > 200°

Hazardous:

40.30 % Weight

D. Chemical Composition (Totals must add up to 100%)

Water Content

Color wash

15-18
85**E. Metals**

Total (PPM)

TCLP (PPM)

Arsenic

Barium

Cadmium

Chromium

Mercury

Lead

Selenium

Silver

Copper

Nickel

Zinc

F. Other Components - Total (PPM)

Cyanides:

NA

PCB's

< 5.0

Solvents

NA

G. Shipping Information

DOT Hazardous Material?

☒ Yes

Proper Shipping Name:

Combustible liquid res

DOT Hazard Class:

Combustible PG III

ID No. UN/NA

NA1993

AQ

Method of Shipment

☐ Bulk Liquid☒ Drum (type/size)☐ Other

SS

Anticipated Volume:

Gals

Other ()

Per:

☐ One Time☐ Week☐ Month☐ Quarter☒ Annual☐ 12**H. Hazardous Characteristics**

Reactivity:

☒ None☐ Explosive☐ Pyrophoric☐ Water Reactive☐ Shock Sensitive☐ Other

Other Hazardous Characteristics:

☒ None☐ Pesticide Mfg Waste☐ Radioactive☐ Ecological☐ Other

Is this a hazardous waste as defined by 40 CFR 261?

☐ Yes☒ No

USEPA hazardous codes

NA

Is this waste subject to a Land Disposal Restriction per 40 CFR 268?

☐ Yes☒ No

If Yes, attach Land Ban Form.

I. Special Handling Information / Additional Comments Describe

Non-Regulated Color Wash

Certification

I hereby warrant the sample defined herein is truly representative of all physical and chemical properties of the waste stream as defined in the preceding profile data, and taken in accordance with 40 CFR 261. I have reviewed and am familiar with the information supplied in this and all attached documents and that to the best of my knowledge is true and accurate, and all suspected hazards have been disclosed. Correction Authorization: I authorize ERD-MO, Inc. and/or its representative(s) to make corrections to this profile which are consistent with the sample presented for characterization and/or regulatory requirements of state and federal agencies. I understand that I will receive a corrected copy.

Generator Signature:

Title:

Date:

24-10-17

MEI-MO

A Millennium Environmental Company
3100 Industrial Fuels Drive
Scott City, MO 63780
573-651-3444
Fax: 573-651-3821

October 25, 1999

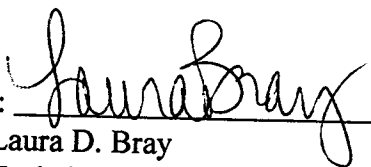
Cody Cochran
Rosse Lithographing
2100 Wyandotte
Kansas City, MO 64108

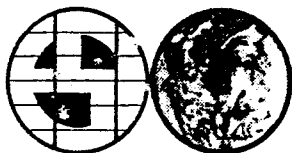
RE: AUTHORIZATION LETTER

We are hereby notifying you, the generator, that our Scott City facility has the appropriate waste management permits and is authorized to accept the following waste stream(s) generated by your company.

APPROVAL CODES:	WASTE STREAM NAMES:	MO STATE CODES:
C3066-06	Non Hazardous, Non RCRA, Non DOT Regulated	NONE

Authorized Signature: _____


Laura D. Bray
Technical Services Supervisor



ENVIRONMENTAL SPECIALISTS, INC.

CUSTOMER NAME:

ROSSE LITHOGRAPHING CO.
2100 WYANDOTTE
KANSAS CITY, MISSOURI 64108

CUSTOMER NO: 7589

JOB NO: 92526

INVOICE NO: 10239

INVOICE DATE: JUNE 9, 1992

ATTENTION: KEITH GLOE

DESCRIPTION OF WORK

EMERGENCY SPILL RESPONSE SERVICES

DATES OF WORK

JUNE 3, 1992

AMOUNT BILLED

\$1,188.26

TOTAL AMOUNT DUE:

\$1,188.26

TERMS: NET DUE TEN (10) DAYS

WE APPRECIATE YOUR BUSINESS

A Division of



DAILY JOB REPORT

DATE: 06/03/92

JOB # 92526

LABOR	REG HOURS	REG RATE	OT HOURS	OT RATE	AMOUNT
PAUL WRABEC, SR PROJ MGR	4.00	\$85.00	0.00	\$0.00	\$340.00
LEO OHLHAUSER, RECOV TECH	4.00	\$32.00	0.00	\$0.00	128.00
ROGER MERRITT, RECOV TECH	4.00	\$32.00	0.00	\$0.00	128.00
	0.00	\$0.00	0.00	\$0.00	0.00
	0.00	\$0.00	0.00	\$0.00	0.00
	0.00	\$0.00	0.00	\$0.00	0.00
	0.00	\$0.00	0.00	\$0.00	0.00
	0.00	\$0.00	0.00	\$0.00	0.00

TOTAL LABOR

\$596.00

EQUIPMENT

	HOURS	RATE	AMOUNT
EMERGENCY RESPONSE VAN	4.00	\$82.69	330.76
FLATBED BARREL LIFT TRUCK	4.00	\$26.25	105.00
AUTOMOBILE	NO CHARGE	\$0.00	0.00
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00

TOTAL EQUIPMENT

\$435.76

MATERIAL & MISC.

	QUANTITY	RATE	AMOUNT
FLOOR DRY ABSORBANT BAGS	PER EACH 8.00	\$8.50	\$68.00
RECOVERY DRUMS	PER EACH 3.00	\$29.50	88.50
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00
	0.00	\$0.00	0.00
			0.00
			0.00

\$156.50

TOTAL DAILY COST

\$1,188.26



3001 East 83rd Street
Kansas City, Missouri 64132

ENVIRONMENTAL SPECIALISTS, INC.

10239/6-9

JOB # 92526

P.O.#

OWNERS
NAME

Rosge Litho.

ADDRESS

REMARKS 6/3/92 Emergency Spill Response Services

LABOR-NAME & CLASSIFICATION	CODE	HOURS	UNIT PRICE	AMOUNT
Paul Wrabec - Sr. Proj Mgr.		ST 4.0	85.00	340.00
		OT		
Leo Ohlhauser - Recovery Tech		ST 4.0	32.00	128.00
		OT		
Roger Merritt - Recovery Tech		ST 4.0	32.00	128.00
		OT		
		ST		
		OT		
		ST		
		OT		
		ST		
		OT		
		ST		
		OT		
		ST		
		OT		
TOTAL LABOR				596.00

EQUIPMENT-NUMBER & DESCRIPTION	CODE	HOURS	UNIT PRICE	AMOUNT
Emergency Response Van.		4.0	82.69	330.76
Flatbed Barrel Lift Truck		4.0	26.25	105.00
Can		4.0	8.95	No charge
TOTAL EQUIPMENT				435.76

MATERIALS	CODE	QUANTITY	UNIT PRICE	AMOUNT
Flr Dry Absorbent Bags		8 ea	8.50	68.00

Paul Wrabec - Sr. Proj Mgr.

ST 4.0

85.00

340.00

OT

Leo Ohlhauser - Recovery Tech

ST 4.0

32.00

128.00

OT

Roger Merritt - Recovery Tech

ST 4.0

32.00

128.00

OT

ST

OT

ST

OT

ST

OT

ST

OT

ST

OT

TOTAL LABOR

596.00

EQUIPMENT - NUMBER & DESCRIPTION

CODE

HOURS

UNIT
PRICE

AMOUNT

Emergency Response Van.

4.0

82.69

330.76

Flatbed Barrel Lift Truck

4.0

26.25

105.00

Can

4.0

8.95

No charge

TOTAL EQUIPMENT

435.76

MATERIALS

CODE

QUANTITY

UNIT
PRICE

AMOUNT

Flr Dry Absorbent Bags

8 ea

8.50

68.00

Recovery Drums

3 ea

29.50

88.50

TOTAL MATERIALS

156.50

DATE 6/3/92

PREPARED BY

OWNERS
SIGNATURE

TOTAL THIS REPORT

1,188.26



3001 East 83rd Street
Kansas City, Missouri 64132

ENVIRONMENTAL SPECIALISTS, INC.

JOB # 92526

P.O.# _____

OWNERS
NAME

Rosse Litho.

ADDRESS _____

REMARKS 6/3/92 Emergency Spill Response Services

LABOR-NAME & CLASSIFICATION	CODE	HOURS	UNIT PRICE	AMOUNT
Paul Wrabec - Sr. Proj Mgr.		ST 4.0	85.00	340.00
		OT		
Leo Ohlhauser - Recovery Tech		ST 4.0	32.00	128.00
		OT		
Roger Merritt - Recovery Tech		ST 4.0	32.00	128.00
		OT		
		ST		
		OT		
		ST		
		OT		
		ST		
		OT		
		ST		
		OT		
		ST		
		OT		
TOTAL LABOR				596.00

EQUIPMENT-NUMBER & DESCRIPTION	CODE	HOURS	UNIT PRICE	AMOUNT
Emergency Response Van.		4.0	82.69	330.76
Flatbed Bussel Lift Truck		4.0	26.25	105.00
Car		4.0	8.95	No charge
TOTAL EQUIPMENT				435.76

MATERIALS	CODE	QUANTITY	UNIT PRICE	AMOUNT
Flr Dru Absorbant Base	25	5	68.00	85.00

Roger Merritt - Recovery Tech

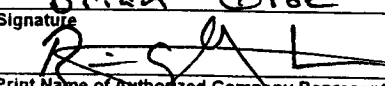
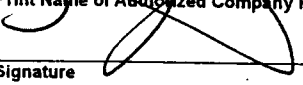
MATERIALS		CODE	QUANTITY	UNIT PRICE	AMOUNT
Flt Dry Absorbant Bags			8 ea	8.50	68.00
Recovery Drums			3 ea	29.50	88.50
				TOTAL MATERIALS	156.50

PREPARED BY
OWNERS
SIGNATURE _____

1188.26

Emissions Inventory Questionnaire (EIQ)
 FORM 1.0 GENERAL PLANT INFORMATION

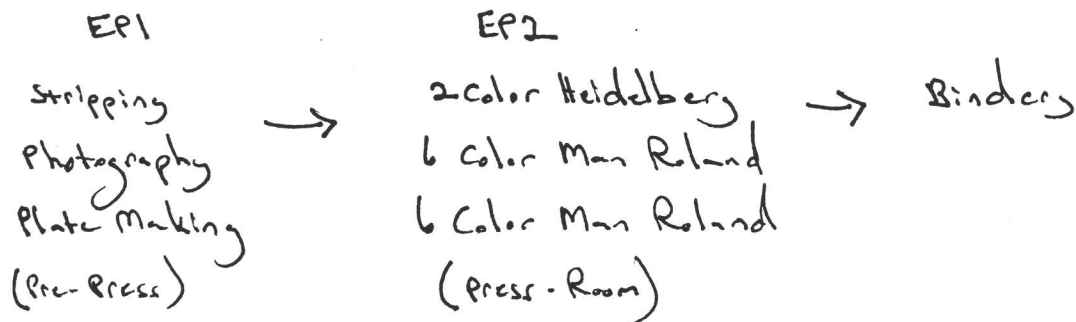
Shaded Areas for Office Use Only

Facility Name Rosse Lithographing Company			FIPS 095	Plant No. 2030	County No. 2240	Year of Data 99
Facility Street Address 2100 Wyandotte St			County Name Jackson	Region Kc	Classification OTH	B
City Kansas City	ZIP Code 64108	Facility Phone Number 816 842 4669				
Facility Mailing Address 2100 Wyandotte St.			Product/Principal Activity Printing			
City Kansas City	ZIP Code 64108	Number of Employees 62		Land in Acres 0.7		
Facility Contact Person Brian Coloe		Title CO-CEO		Where to Send EIQ in Future (Check One) <input checked="" type="checkbox"/> Facility Mailing Address <input type="checkbox"/> Parent Co. Mailing Address		
Latitude		Longitude		UTM Coordinates		CTSR Legal Description
Degrees		Zone		Section (1/4): (1/4):		
Minutes		Easting (m) 362.779		Township		
Seconds		Northing (m) 4327		Range		
Parent Company Name			Contact Person		Phone Number	
Mailing Address			City		State	ZIP Code
TOTAL PLANT EMISSIONS FROM FORM 3.0 (TONS PER YEAR)						
PM10	SOx	NOx	VOC 17.55	CO	LEAD	HAPs
The undersigned hereby certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies that they believe this information and statements to be true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.						
Print Name of Person Completing Form Brian Coloe			Title CO-CEO		Check Amount	
Signature 			Date 3-30-00		Check Number	
Print Name of Authorized Company Representative			Title		Check Date 3-30-00	
Signature 			Date		OFFICE USE ONLY	
					Logged In By	Date Received

FORM 1.1 PROCESS FLOW DIAGRAM

Facility Name Rosco Lithographing Co.	FIPS County No. 095	Plant No. 2030	Year of Data 1999
---	-------------------------------	--------------------------	-----------------------------

Please use this page or a separate sheet to provide a Process Flow Diagram per the instructions for Form 1.1 in the Instruction Packet. Do not forget to include all processes used in your facility. Make sure to label each process and piece of equipment and provide an identification number for all emission points (including fugitive emissions) and air pollution control equipment. Make sure to use the same identification number throughout the entire EIQ.



Facility Name

Plant No.

Year of Data

Rosse Lithographing Company

095

2030

1999

[1] Total Number of Emission Points

2

[2] Point No.

[3] Point Description (Use same description on Form 2.0)

[4] Worksheet(s) Used with Form 2.0

ERI

Pre-Press Operations

EP2

Sheet fed Litho Presses

FORM 2.0 EMISSION POINT INFORMATION

Facility Name Rosco Lithographing Company				County No. 095		Plant No. 2030		Year of Data 99	
[1] POINT IDENTIFICATION									
Point No. EPI		AIRS ID (See)		SIC Code 2752		Point Description Pre-Press Operations			
Source Classification Code (SCC) 40500598				Emission Factor Units lbs/1,000 gal		Number of SCCs Used with this Point			Seg. No.
SCC Description Painting General Ink thinning solvent - Other Not Specified									
[2] STACK/VENT PARAMETERS									
Stack No. None		AIRS ID - St		Height (Ft)		Diameter (Ft)		For a non-circular stack: Diameter = $(1.128A)^{1/2}$ (A = Cross Sectional Area in sq. feet)	
Temperature (F)		Velocity (Ft/Min)		Flow Rate (Cu Ft/Min)		List other points sharing this stack.			
[3] AIR POLLUTION CONTROLS									
Device No.		Device Code		Description of Control Device		Capture Efficiency (%)		Control Device Efficiency (%)	
						PM10		SOx	NOx
								VOC	CO
								Lead	HAPs
[4] OPERATING RATE/SCHEDULE									
Annual Throughput 3,642 gal				Units 1,000 gal		Hours/Day 24		Jan-Mar (%) 25	
Maximum Hourly Design Rate 0.00100				Units/Hr 1,000 gal/hr		Days/Week 5		Apr-Jun (%) 20	
						Weeks/Year 52		Jul-Sep (%) 25	
								Oct-Dec (%) 30	
EMISSIONS CALCULATIONS									
Source of Emission Factor: (List below in [6])						AP 42/Other Reference		[5] List other worksheets.	
1 CEM 2 Stack Test		3 Mass Balance 4 AP-42 or FIRE		5 Other 6 Eng Calc		# Worksheet Number (Please identify worksheet)			
Air Pollutant	[6]	[7] Emission Factor (Lbs/Unit)	[8] Ash or Sulfur (%)	[9] Overall Control Efficiency (%)	[10] Actual Emissions (Tons/Yr)	Maximum Hourly (Lbs/Hr)	Potential Controlled (Tons/Yr)	Potential Uncontrolled (Tons/Yr)	
PM10									
SOx									
NOx									
VOC	23	4.37			7.96				
CO									
Lead									
HAPs									

FORM 2.3 VOC PROCESS MASS-BALANCE WORKSHEET

Facility Name <i>Rosco Lithographing Company</i>		FIPS County No. <i>095</i>	Plant No. <i>2030</i>	Year of Data <i>1999</i>		
Point No. <i>EPI</i>		AIRS ID-Pt <i>J</i>	Source Classification Code (SCC) <i>40500598</i>		Seg No.	
[1] TOTAL ANNUAL THROUGHPUT AND TOTAL POUNDS OF VOC						
Application Method	Material Type	A Annual Throughput (SCC Units/Yr)	B % by Wt of VOC in Material	C Density (Lbs/Gal)	D Lbs of VOC per Unit	E VOC (Lbs/Yr)
Enter the TOTAL ANNUAL THROUGHPUT amount calculated to the right, in Block 4 Annual Throughput on Form 2.0.		TOTAL ANNUAL THROUGHPUT (SCC Units) <i>3,642 gal</i>	If A is in gallons, then $B \times C = D$ If A is in tons, then $B \times 2000 = D$ $A \times D = E$		TOTAL VOC (Lbs/yr) <i>15,919.58 lbs</i>	
[2] CALCULATION OF VOC RECOVERED						
LBS OF VOC RECOVERED = {Material Shipped as Hazardous Waste} x {% VOC Content of Waste}						
Material Shipped as Hazardous Waste		% VOC Content of Waste		Lbs of VOC Recovered		
Documentation must be supplied to support the amount of material shipped and the % VOC Content.						
[3] CALCULATION OF VOC EMITTED PRIOR TO CONTROL						
LBS OF VOC EMITTED PRIOR TO CONTROL EQUIPMENT =						
{Total Lbs of VOC} - {Lbs of VOC Recovered}						
Lbs of VOC Emitted Prior to Control <i>15,919.58 lbs</i>						
[4] CALCULATION OF EMISSION FACTOR						
EMISSION FACTOR =						
{Lbs of VOC Emitted Prior to Control Equipment} / {Total Annual Throughput}						
Emission Factor in Lbs/Unit <i>4.37 lbs/gal</i>						

Enter the EMISSION FACTOR in VOC Box of Block 7 on Form 2.0, Emission Point Information.

Rosse Litho
Annual Throughput & lbs of VOC's
1999

Prepared By:
Approved By:

	Description	Gal.	% Voc		Density (lbs/gal.)	lbs VOC Per gal.	(lbs) Total VOC Emissions
			by	Wt.			
1							
2	Anchor Emerald D&Q fountain Sol	590				3.05	1799.50
3	KODAK Dev Agent Image Mach	201	85%		7.3		1257.45
4	" " " " Neg	78	88%		7.3		505.19
5	" Fletcher Agent Image	138	85%		7.3		863.32
6	RBP Petro Gum	68			gm/ltr	0.52	353.6
7	Varn Wash Step 1	87			20		1740
8	" " " 2	62			20		1240
9	Vari Gum Arabic	58				0.52	301.6
10	Varn Wash VWM	2960				4.83	11398.80
11	Total	3,642 gal.					
12							
13							
14							
15	conversion factor gm/ltr. x .008345 = lbs/gal						15919.58
16							lbs
17							VOC
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

FORM 2.0 EMISSION POINT INFORMATION

Facility Name Rosse Lithographing Company				County No. 095		Plant No. 2030		Year of Data 99			
[1] POINT IDENTIFICATION											
Point No. EP2	AIRS ID - Pt 2	Site Code 2752	Point Description Sheetfed Litho Presses								
Source Classification Code (SCC) 40500401			Emission Factor Units lbs/Ton of Ink			Number of SCCs Used with this Point		Seg. No.			
SCC Description Printing Generator Litho: 2752											
[2] STACK/VENT PARAMETERS											
Stack No. None	AIRS ID - St	Height (Ft)	Diameter (Ft)		For a non-circular stack: Diameter = (1.128A) ^{1/2} (A = Cross Sectional Area in sq. feet)						
Temperature (F)	Velocity (Ft/Min)		Flow Rate (Cu Ft/Min)		List other points sharing this stack.						
[3] AIR POLLUTION CONTROLS											
Device No.	Device Code	Description of Control Device		Capture Efficiency (%)	PM10	SOx	NOx	VOC	CO	Lead	HAPs
[4] OPERATING RATE/SCHEDULE											
Annual Throughput		Units		Hours/Day		Jan-Mar (%)		Apr-Jun (%)			
		Tons		24		25		20			
Maximum Hourly Design Rate		Units/Hr		Days/Week		Jul-Sep (%)		Oct-Dec (%)			
0.00370		lbs/Ton		5		25		30			
				52							
EMISSIONS CALCULATIONS											
Source of Emission Factor: (List below in [6])					AP 42/Other Reference		[5] List other worksheets.				
1 CEM 2 Stack Test		3 Mass Balance 4 AP-42 or FIRE		5 Other 6 Eng Calc		## Worksheet Number (Please identify worksheet)					
Air Pollutant	[6]	[7] Emission Factor (Lbs/Unit)	[8] Ash or Sulfur (%)	[9] Overall Control Efficiency (%)	[10] Actual Emissions (Tons/Yr)	Maximum Hourly (Lbs/Hr)	Potential Controlled (Tons/Yr)	Potential Uncontrolled (Tons/Yr)			
PM10											
SOx											
NOx											
VOC	23	23	383.91		9.59						
CO											
Lead											
HAPs											

FORM 2.3 VOC PROCESS MASS-BALANCE WORKSHEET

Facility Name Rosse Lithographing Company		FIPS County No. 095	Plant No. 2030	Year of Data 1999	
Point No.	AIRS ID-P	Source Classification Code (SCC)			Seg No.

[1] TOTAL ANNUAL THROUGHPUT AND TOTAL POUNDS OF VOC						
Application Method	Material Type	A Annual Throughput (SCC Units/Yr)	B % by Wt of VOC in Material	C Density (Lbs/Gal)	D Lbs of VOC per Unit	E VOC (Lbs/Yr)
	Ink & Varn	18.70	30%			11,220
	Coating	29.03	6%			3,484
	lacelene	1.62	100%			3,240
	Alcohol	0.62	100%			1,240

Enter the TOTAL ANNUAL THROUGHPUT amount calculated to the right, in Block 4 Annual Throughput on Form 2.0.	TOTAL ANNUAL THROUGHPUT (SCC Units) 49.97 Tons	If A is in gallons, then B x C = D If A is in tons, then B x 2000 = D A x D = E	TOTAL VOC (Lbs/yr) 19,184 lbs VOC

[2] CALCULATION OF VOC RECOVERED		
LBS OF VOC RECOVERED = (Material Shipped as Hazardous Waste) x (% VOC Content of Waste)		
Material Shipped as Hazardous Waste —	% VOC Content of Waste 30%	Lbs of VOC Recovered —
Documentation must be supplied to support the amount of material shipped and the % VOC Content.		

[3] CALCULATION OF VOC EMITTED PRIOR TO CONTROL	
LBS OF VOC EMITTED PRIOR TO CONTROL EQUIPMENT = (Total Lbs of VOC) - (Lbs of VOC Recovered)	
Lbs of VOC Emitted Prior to Control 19,184 lbs	

[4] CALCULATION OF EMISSION FACTOR	
EMISSION FACTOR = (Lbs of VOC Emitted Prior to Control Equipment) / (Total Annual Throughput)	
Emission Factor in Lbs/Unit 383.91 lbs/Ton	

Enter the EMISSION FACTOR in VOC Box of Block 7 on Form 2.0, Emission Point Information.

FORM 3.0 KC EMISSIONS FEE CALCULATION (Kansas City)

Facility Name					FIPS County No.	Plant No.	Year of Data	
[1] POINT No. SCC	(Use one row to list the emissions from one emission point. Sum the emissions in the page total box at the bottom of the column. If more than one page is needed, use the first row of the duplicated page to list the page totals from this page. Express emission figures in tons per year and round to two [2] decimal places.)							
	Air Pollutant							
	PM10	SOx	NOx	VOC	CO	LEAD	HAPs	
EP1 40500598			7.96					
EP2 40500401			9.59					
PAGE TOTALS								

NOTE: FILL OUT THE LOWER PORTION OF THIS FORM ONE TIME ONLY.

[2] ACTUAL EMISSIONS (Make sure to use the sum of ALL page totals for each pollutant for the actual emission figures below.)								
PM10	SOx	NOx	VOC	CO	LEAD	HAPs		
			17.55					

Copy the Actual Emissions from [2] to the appropriate box(s) in the Total Plant Emissions section of Form 1.0.

[3] CHARGEABLE EMISSIONS (Maximum 4,000 Tons/Yr Cap per Pollutant)								
PM10	SOx	NOx	VOC	CO	LEAD	HAPs		
			17.55					

[4] SUM OF CHARGEABLE EMISSIONS SUBJECT TO FEES (Maximum 12,000 tons per year cap; round figure to nearest ton per year.)				17.55 Tons/Yr				
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[5] TOTAL ANNUAL EMISSIONS FEE (\$25.70 PER TON OF POLLUTANT LISTED IN Box 4)				One Ton Minimum	\$ 451.03			
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[6] ANNUAL EMISSIONS FEE REMITTED TO THE KANSAS CITY AIR AGENCY (If Applicable)								
Check Number	Check Date	Amount Remitted in Calendar Year of Record						
22578	3-30-00	\$						

[7] ANNUAL EMISSIONS FEE REMITTED TO THE STATE (Box 5 minus Box 6)								
Check Number	Check Date	Check Amount						
	3-30-00	\$ 451.03						

[8] Include a check for the amount in Box 7, payable to the Missouri Air Pollution Control Program. Mail the check for the emissions fee to the state air agency listed at the top of this form.

Facilities within Local Air Program jurisdiction only need to include copies of Forms 1.0, 3.0 and 4.0 along with the emissions fee check to the Jefferson City address..

[9] Send the completed questionnaire and any supporting documentation to the agency listed at the top of Form 1.0.

FORM 4.0 FINANCIAL COST ESTIMATE

Facility Name Ross Lithographing	FIPS County No. 095	Plant No. 2030	Year of Data 1999
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The Missouri Air Law, Chapter 643 requires a financial cost estimate. The cost estimate is an evaluation of any additional costs of doing business attributable to the federal Clean Air Act, as amended.

Please calculate the cost and expenses incurred to complete the Emission Inventory Questionnaire (EIQ), including the calculation of emission fees. If you hired an outside consultant, please include the time and money charged to your company. Also include any cost incurred if you installed air pollution control equipment, any additional monitoring or testing expense or any additional personnel costs incurred to comply with the Missouri Air Law and the federal Clean Air Act, as amended.

PLEASE BE SURE TO USE THE CODES. SEE INSTRUCTIONS FOR LISTS.

Category Reporting	CODE for Personnel or Equipment	Total Number of Hours Required	Cost per Hour	Total Cost
[1] EIQ reviewed and completed by Company Personnel (Engineers, Technical Specialists, Others)		28	\$150	\$4,200
[2] EIQ completed by outside Engineering Consultants				
[3] Pollution control equipment, monitoring, or testing (Please list items separately)				
[4] Estimate of the number of jobs added to implement the federal Clean Air Act, as amended		100	\$80	\$8,000
[5] Personnel and other costs associated with complying with the Clean Air Act, as amended, which have not been included above (Please list items separately)				
TOTAL				\$12,200

Remarks

Phone 573-651-3444
Fax 573-651-3821

Generator: Rosse Lithographing US EPA ID #: MO0985805464
Street Address: 2100 Wyandotte City: Kansas City State: MO Zip: 64108
Manifest Document #: n/a

Notification Statement: This waste must be treated to the applicable treatment standards set forth in 40 CFR 268 Subpart D, Section 268.32, or RCRA Section 3004 (d). Waste analysis is attached where available, otherwise the information herein is based upon any thorough knowledge of the waste(s). I hereby certify that the information provided is complete and accurate based on any knowledge of the materials.

Generators Signature: Cody Cochran Date: 11-16-99

Treatment Standards for F001 - F005 Spent Solvents

Generator Name: Rosse LithographingUS EPA ID # MD098580S464

Constituents of concern		Nonwastewater		Wastewater Total composition mg/L	Line Item 1 Check if not applicable <input checked="" type="checkbox"/>	Line Item 2 Check if not applicable <input checked="" type="checkbox"/>	Line Item 3 Check if not applicable <input checked="" type="checkbox"/>	Line Item 4 Check if not applicable <input checked="" type="checkbox"/>
		Total composition mg/kg	TCLP mg/L					
Ref. #	F001							
44	Carbon tetrachloride	5.6	-	0.06				
156	Methylene chloride	33	-	0.09				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6	-	0.05				
226	Trichloroethylene	5.6	-	0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06				
227	Trichloromonofluoro- methane	33	-	0.02				
Ref. #	F002							
48	Chlorobenzene	5.7	-	0.06				
80	o-Dichlorobenzene	6.2	-	0.09				
156	Methylene chloride	33	-	0.09				
156	Methylene chloride (Pharmaceutical Industry- Wastewater Subcategory)	-	-	0.44				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6	-	0.05				
225	1,1,2-Trichloroethane	7.6	-	0.03				
226	Trichloroethylene	5.6	-	0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06				
227	Trichloromonofluoro- methane	33	-	0.02				
Ref. #	F003							
4	Acetone	160	-	0.28				
35	n-Butyl alcohol	2.6	-	5.6				
68	Cyclohexanone*	-	0.75	0.36*				
120	Ethyl acetate	33	-	0.34				
121	Ethyl benzene	6	-	0.06				
123	Ethyl ether	160	-	0.12				
149	Methanol*	-	0.75	5.6*				
158	Methyl isobutyl keytone	33	-	0.14				
237	Xylene(total)	28	-	0.32				
Ref. #	F004							
65, 66	Cresol (m-and p-isomers)	3.2	-	0.77				
64	o-Cresol	5.6	-	0.11				
169	Nitrobenzene	14	-	0.07				
Ref. #	F005							
25	Benzene	3.7	-	0.07				
43	Carbon disulfide*	-	4.8	0.014*				
—	2-Ethoxyethanol	INCIN	-	BIODG; or INCIN				
143	Isobutyl alcohol	170	-	5.6				
157	Methyl ethyl keytone	36	-	0.28				
—	2-Nitropropane	INCIN	-	(WETOX or CHOXD)				
205	Pyridine	16	-	0.01				
218	Toluene	28	-	0.08				

* treatment standards for Carbon Disulfide, Cyclohexanone and Methanol nonwastewaters are based on the TCLP and apply only to spent solvents containing one, two, or all three of these constituents. If a waste contains any of these three constituents along with any other constituents found in F001 - F005, then only the treatment standards for the other constituents apply (i.e., the standards for Carbon Disulfide, Cyclohexanone and Methanol do not apply when other constituents are present)

Phone 573-651-3444
Fax 573-651-3821

Generator: Rosse Lithographing US EPA ID #: M00985805464
Street Address: 2100 Wyandotte City: Kansas City State: MO Zip: 64108
Manifest Document #: n/a

Notification Statement: This waste must be treated to the applicable treatment standards set forth in 40 CFR 268 Subpart D, Section 268.32, or RCRA Section 3004 (d). Waste analysis is attached where available, otherwise the information herein is based upon any thorough knowledge of the waste(s). I hereby certify that the information provided is complete and accurate based on any knowledge of the materials.

Generators Signature: Cody Cichra Date: 11-16-99

Treatment Standards for F001 - F005 Spent Solvents

Generator Name: Rosse LithographingUS EPA ID # MOD985805464

Constituents of concern		Nonwastewater		Wastewater Total composition mg/L	Line Item 1 Check if not applicable	Line Item 2 Check if not applicable	Line Item 3 Check if not applicable	Line Item 4 Check if not applicable
		Total composition mg/kg	TCLP mg/L					
Ref. #	F001							
44	Carbon tetrachloride	5.6	-	0.06				
156	Methylene chloride	33	-	0.09				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6	-	0.05				
226	Trichloroethylene	5.6	-	0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06				
227	Trichloromonofluoro- methane	33	-	0.02				
Ref. #	F002							
48	Chlorobenzene	5.7	-	0.06				
80	o-Dichlorobenzene	6.2	-	0.09				
156	Methylene chloride	33	-	0.09				
156	Methylene chloride (Pharmaceutical Industry- Wastewater Subcategory)	-	-	0.44				
213	Tetrachloroethylene	5.6	-	0.06				
224	1,1,1-Trichloroethane	5.6	-	0.05				
225	1,1,2-Trichloroethane	7.6	-	0.03				
226	Trichloroethylene	5.6	-	0.05				
232	1,1,2-Trichloro- 1,2,2-trifluoroethane	28	-	0.06				
227	Trichloromonofluoro- methane	33	-	0.02				
Ref. #	F003							
4	Acetone	160	-	0.28				
35	n-Butyl alcohol	2.6	-	5.6				
68	Cyclohexanone*	-	0.75	0.36*				
120	Ethyl acetate	33	-	0.34				
121	Ethyl benzene	6	-	0.06				
123	Ethyl ether	160	-	0.12				
149	Methanol*	-	0.75	5.6*				
158	Methyl isobutyl keytone	33	-	0.14				
237	Xylene(total)	28	-	0.32				
Ref. #	F004							
65, 66	Cresol (m- and p-isomers)	3.2	-	0.77				
64	o-Cresol	5.6	-	0.11				
169	Nitrobenzene	14	-	0.07				
Ref. #	F005							
25	Benzene	3.7	-	0.07				
43	Carbon disulfide*	-	4.8	0.014*				
—	2-Ethoxyethanol	INCIN	-	BIODG; or INCIN				
143	Isobutyl alcohol	170	-	5.6				
157	Methyl ethyl keytone	36	-	0.28				
—	2-Nitropropane	INCIN	-	(WETOX or CHOXD)				
205	Pyridine	16	-	0.01				
218	Toluene	28	-	0.08				

*The treatment standards for Carbon Disulfide, Cyclohexanone and Methanol nonwastewaters are based on the TCLP and apply only to spent solvents containing one, two, or all three of these constituents. If a waste contains any of these three constituents along with any other constituents found in F001 - F005, then only the treatment standards for the other constituents apply (i.e., the standards for Carbon Disulfide, Cyclohexanone and Methanol do not apply when other constituents are present)

Organic Constituents				Organic Constituents				Organic Constituents			
No	Chemical	NWW	WW	No	Chemical	NWW	WW	No	Chemical	NW W	WW
1	A2213 ⁶	1.4	0.042	59	Chloromethane/Methyl chloride	30	0.19	114	Endosulfan I	0.066	0.023
2	Acenaphthylene	3.4	0.059	60	2-Chloronaphthalene	5.6	0.055	115	Endosulfan II	0.13	0.029
3	Acenaphthene	3.4	0.059	61	2-Chlorophenol	5.7	0.044	116	Endosulfan sulfate	0.13	0.29
4	Acetone	160	0.28	62	3-Chloropropylene	30	0.036	117	Endrin	0.13	0.0028
5	Acetonitrile	38	5.6	63	Chrysene	3.4	0.059	118	Endrin aldehyde	0.13	0.025
6	Acetophenone	9.7	0.010	64	o-Cresol	5.6	0.11	119	EPTC ⁶	1.4	0.042
7	2-Acetylaminofluorene	140	0.059	65	m-Cresol	5.6	0.77	120	Ethyl acetate	33	0.34
8	Acrolein	NA	0.29	66	p-Cresol	5.6	0.77	121	Ethyl benzene	10	0.057
9	Acrylamide	23	19	67	m-Cumenyl methylcarbamate ⁶	1.4	0.056	122	Ethyl cyanide/ Propanenitrile	360	0.24
10	Acrylonitrile	84	0.24	68	Cyclohexanone	0.75	0.36	123	Ethyl ether	160	0.12
11	Aldicarb sulfone ⁶	0.28	0.056	69	o,p'-DDD	0.087	0.023	124	bis(2-Ethylhexyl) phthalate	28	0.28
12	Aldrin	0.066	0.021	70	p,p'-DDD	0.087	0.023	125	Ethyl methacrylate	160	0.14
13	4-Aminobiphenyl	NA	0.13	71	o,p'-DDE	0.087	0.031	126	Ethylene oxide	NA	0.12
14	Aniline	14	0.81	72	p,p'-DDE	0.087	0.031	127	Famphur	15	0.017
15	Anthracene	3.4	0.059	73	o,p'-DDT	0.087	0.0039	128	Fluoranthene	3.4	0.068
16	Aramite	NA	0.36	74	p,p'-DDT	0.087	0.0039	129	Fluorene	3.4	0.059
17	alpha-BHC	0.066	0.00014	75	Dibenz(a,h)anthracene	8.2	0.055	130	Formetanate / hydrochloride ⁶	1.4	0.056
18	beta-BHC	0.066	0.00014	76	1,2-Dibromo-3- chloropropane	15	0.11	131	Formparanate ⁶	1.4	0.056
19	delta-BHC	0.066	0.023	77	1,2-Dibromoethane / Ethylene dibromide	15	0.028	132	Heptachlor	0.066	0.0012
20	gamma-BHC (Lindane)	0.066	0.0017	78	Dibromomethane	15	0.11	133	Heptachlor epoxide	0.066	0.016
21	Barban ⁶	1.4	0.056	79	m-Dichlorobenzene	6.0	0.036	134	Hexachlorobenzene	10	0.055
22	Bendiocarb ⁶	1.4	0.056	80	o-Dichlorobenzene	6.0	0.088	135	Hexachlorobutadiene	5.6	0.055
23	Bendiocarb phenol ⁶	1.4	0.056	81	p-Dichlorobenzene	6.0	0.090	136	Hexachlorocyclopenta- diene	2.4	0.057
24	Benomyl ⁶	1.4	0.056	82	Dichlorodifluoromethane	7.2	0.23	137	HxCDDs (All Hexachlo- rodibenzo-p-dioxins)	0.001	0.000063
25	Benzene	10	0.14	83	1,1-Dichloroethane	6.0	0.059	138	HxCDFs (All Hexachlo- rodibenzofurans)	0.001	0.000063
26	Benz(a)anthracene	3.4	0.059	84	1,2-Dichloroethane	6.0	0.21	139	Hexachloroethane	30	0.055
27	Benzal chloride	6.0	0.055	85	1,1-Dichloroethylene	6.0	0.025	140	Hexachloropropylene	30	0.035
28	Benzo(b)fluoranthene	6.8	0.11	86	trans-1,2-Dichloroethylene	30	0.054	141	Indeno (1,2,3-c,d) pyrene	3.4	0.0055
29	Benzo(k)fluoranthene	6.8	0.11	87	2,4-Dichlorophenol	14	0.044	142	Iodomethane	65	0.19
30	Benzo(g,h,i)perylene	1.8	0.0055	88	2,6-Dichlorophenol	14	0.044	143	Isobutyl alcohol	170	5.6
31	Benzo(a)pyrene	3.4	0.061	89	2,4-Dichlorophenoxyacetic acid/2,4-D	10	0.72	144	Isodrin	0.066	0.021
32	Bromodichloromethane	15	0.35	90	1,2-Dichloropropane	18	0.85	145	Isolan ⁶	1.4	0.056
33	Bromomethane/Methyl bromide	15	0.11	91	cis-1,3-Dichloropropylene	18	0.036	146	Isosafrole	2.6	0.081
34	4-Bromophenyl phenyl ether	15	0.055	92	trans-1,3- Dichloropropylene	18	0.036	147	Kepone	0.13	0.0011
35	n-Butyl alcohol	2.6	5.6	93	Dieldrin	0.13	0.017	148	Methacrylonitrile	84	0.24
36	Butylate ⁶	1.4	0.042	94	Diethylene glycol, dicarbamate ⁶	1.4	0.056	149	Methanol	0.75	5.6
37	Butyl benzyl phthalate	28	0.017	95	Diethyl phthalate	28	0.20	150	Methapyrilene	1.5	0.081
38	2-sec-Butyl-4,6- dinitrophenol/Dinoseb	2.5	0.066	96	p-Dimethylaminoazo- benzene	NA	0.13	151	Methiocarb ⁶	1.4	0.056
39	Carbaryl ⁶	0.14	0.066	97	2,4-Dimethyl phenol	14	0.036	152	Methomyl ⁶	0.14	0.028
40	Carbenzadim ⁶	1.4	0.056	98	Dimethyl phthalate	28	0.057	153	Methoxychlor	0.18	0.25
41	Carbofuran ⁶	0.14	0.006	99	Dimetilan ⁶	1.4	0.056	154	3-Methylcholanthrene	15	0.0055
42	Carbofuran phenol ⁶	1.4	0.056	100	Di-n-butyl phthalate	28	0.057	155	4,4-Methylene bis (2-chloroaniline)	30	0.50
43	Carbon disulfide	4.8	3.8	101	1,4-Dinitrobenzene	2.3	0.32	156	Methylene chloride	30	0.089
44	Carbon tetrachloride	6.0	0.057	102	4,6-Dinitro-o-cresol	160	0.28	157	Methyl ethyl ketone	36	0.28
45	Carbosulfan ⁶	1.4	0.028	103	2,4-Dinitrophenol	160	0.12	158	Methyl isobutyl ketone	33	0.14
46	Chlordane(alpha & gamma isomers)	0.26	0.0033	104	2,4-Dinitrotoluene	140	0.32	159	Methyl methacrylate	160	0.14
47	p-Chloroaniline	16	0.46	105	2,6-Dinitrotoluene	28	0.55	160	Methyl methansulfonate	NA	0.018
48	Chlorobenzene	6.0	0.057	106	Di-n-octyl phthalate	28	0.017	161	Methyl parathion	4.6	0.014
49	Chlorobenzilate	NA	0.10	107	Di-n-propylnitrosamine	14	0.40	162	Metolcarb ⁶	1.4	0.056
50	2-Chloro-1,3-butadiene	0.28	0.057	108	1,2-Dioxane	170	12.0	163	Mexacarbate ⁶	1.4	0.056
51	Chlorodibromomethane	15	0.057	109	Diphenylamine	13	0.92	164	Molinate ⁶	1.4	0.042
52	Chloroethane	6.0	0.27	110	Diphenylnitrosamine	13	0.92	165	Naphthalene	5.6	0.059
53	bis(2-Chloroethoxy) methane	7.2	0.036	111	1,2-Diphenylhydrazine	NA	0.087	166	2-Naphthylamine	NA	0.52
54	bis(2-Chloroethyl)ether	6.0	0.033	112	Disulfoton	6.2	0.017	167	o-Nitroaniline	14	0.27
55	Chloroform	6.0	0.046	113	Dithiocarbamates(total) ⁶	28	0.028	168	p-Nitroaniline	28	0.028
56	bis(2-chloroisopropyl)ether	7.2	0.055					169	Nitrobenzene	14	0.068
57	p-Chloro-m-cresol	14	0.018					170	5-Nitro-o-toluidine	28	0.32
58	2-Chloroethyl vinyl ether	NA	0.062								

Reference Number Listing And Universal Treatment Standards (continued)

Generator Name: Rosse Lithographing US EPA ID # M00985805464

No.	Chemical	NWW	WW	No.	Chemical	NWW	WW	No.	Chemical	NWW	WW
171	o-Nitrophenol	13	0.028	201	Propapham ⁶	1.4	0.056	231	1,2,3-Trichloropropane	30	0.85
172	p-Nitrophenol	29	0.12	202	Propoxur ⁶	1.4	0.056	232	1,1,2-Trichloro-1,2,2-trifluoroethane	30	0.057
173	N-Nitrosodiethylamine	28	0.40	203	Prosulfocarb ⁶	1.4	0.042	233	Triethylamine ⁶	1.5	0.081
174	N-Nitrosodimethylamine	17	0.40	204	Pyrene	8.2	0.067	234	tris-(2,3-Dibromopropyl) phosphate	0.10	0.11
175	N-Nitro-di-n-butylamine	17	0.40	205	Pyridine	16	0.014	235	Vernolate ⁶	1.4	0.042
176	N-Nitrosomethylethylamine	2.3	0.40	206	Safrole	22	0.081	236	Vinyl chloride	6.0	0.27
177	N-Nitrosomorpholine	2.3	0.40	207	Silvex/2,4,5-TP	7.9	0.72	237	Xylenes-mixed isomers (sum of o-, m- & p-xylene concentrations)	30	0.32
178	N-Nitrosopiperidine	35	0.013	208	1,2,4,5-Tetrachlorobenzene	14	0.055				
179	N-Nitrosopyrrolidine	35	0.013	209	TCDDs (All Tetrachlorodibenzo-p-dioxins)	0.001	0.000063	Inorganic Constituents			
180	Oxamyl ⁶	0.28	0.056	210	TCDFs (All Tetrachlorodibenzofurans)	0.001	0.000063	238	Antimony	1.15	1.9
181	Parathion	4.6	0.014	211	1,1,1,2-Tetrachloroethane	6.0	0.057	239	Arsenic	5.0	1.4
182	Total PCBs (sum of all PCB isomers, or all Aroclors)	10	0.10	212	1,1,2,2-Tetrachloroethane	6.0	0.057	240	Barium	21	1.2
183	Pebulate ⁶	1.4	0.042	213	Tetrachloroethylene	6.0	0.056	241	Beryllium	1.22	0.82
184	Pentachlorobenzene	10	0.055	214	2,3,4,6-Tetrachlorophenol	7.4	0.030	242	Cadium	0.11	0.69
185	PeCDDs (All Pentachlorodibenzo-p-dioxins)	0.001	0.000063	215	Thiodocarb ⁶	1.4	0.019	243	Chromium (Total)	0.60	2.77
186	PeCDFs (All Pentachlorodibenzofurans)	0.001	0.000035	216	Thiophanate-methyl ⁶	1.4	0.056	244	Cyanides (Total) ⁷	590	1.2
187	Pentachloroethane	6.0	0.055	217	Tirpate ⁶	0.28	0.056	245	Cyanides (Amenable) ⁷	30	0.86
188	Pentachloronitrobenzene	4.8	0.055	218	Toluene	10	0.080	246	Fluoride ⁷	NA	35
189	Pentachlorophenol	7.4	0.089	219	Toxaphene	2.6	0.0095	247	Lead	0.75	0.69
190	Phenacetin	16	0.081	220	Triallate ⁶	1.4	0.042	248	Mercury-Nonwastewater from Retort	0.20	NA
191	Phenanthrene	5.6	0.059	221	Tribromomethane / Bromoform	15	0.63	249	Mercury-All Others	0.025	0.15
192	Phenol	6.2	0.039	222	2,4,6-Tribromophenol	7.4	0.035	250	Nickel	11	3.98
193	o-Phenyldiamine ⁶	5.6	0.056	223	1,2,4-Trichlorobenzene	19	0.055	251	Selenium ⁷	5.7	0.82
194	Phorate	4.6	0.021	224	1,1,1-Trichloroethane	6.0	0.054	252	Silver	0.14	0.43
195	Phthalic acid	28	0.055	225	1,1,2-Trichloroethane	6.0	0.054	253	Sulfide ⁷	NA	14
196	Phthalic anhydride	28	0.055	226	Trichloroethylene	6.0	0.054	254	Thallium	0.20	1.4
197	Physostigmine ⁶	1.4	0.056	227	Trichloromonofluoromethane	30	0.020	255	Vanadium ⁷	1.6	4.3
198	Physostigmine salicylate ⁶	1.4	0.056	228	2,4,5-Trichlorophenol	7.4	0.18	256	Zinc ⁷	4.3	2.61
199	Promecarb ⁶	1.4	0.056	229	2,4,6-Trichlorophenol	7.4	0.035				
200	Pronamide	1.5	0.093	230	2,4,5-Trichlorophenoxy-acetic acid/2,4,5-T	7.9	0.72				

Toxicity Characteristic List

D001 - Ignitable characteristic wastes, except for 261.21 (a)(1) High TOC subcategory that are managed in Non-CWA/nonCWA equivalent/non class I SDWA systems.		D001 - High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21 (a)(1)-greater than or equal to 10% TOC.	
D002 - Corrosive characteristic wastes that are managed in non-CWA non CWA equivalent, or class / SDWA systems.			
	Reference #		Reference #
D004 - Arsenic	239	D024 - m-Cresol	65
D005 - Barium	240	D025 - p-Cresol	66
D006 - Cadmium	242	D026 - Cresol Mixed Isomers	64, 65 & 66
D007 - Chromium	243	D027 - p-Dichlorobenzene	81
D008 - Lead	247	D028 - 1,2-Dichloroethane	84
D009 - Mercury	249	D029 - 1,1-Dichloroethylene	85
D010 - Selenium	251	D030 - 2,4-Dinitrotoluene	104
D011 - Silver	252	D031 - Heptachlor Epoxides	133
D012 - Endrin	117	D032 - Hexachlorobenzene	134
D013 - Lindane	20	D033 - Hexachlorobutadiene	135
D014 - Methoxychlor	153	D034 - Hexachloroethane	139
D015 - Toxaphene	219	D035 - Methyl Ethyl Ketone	157
D016 - 2,4-D	89	D036 - Nitrobenzene	169
D017 - 2,4,5-TP Silvex	207	D037 - Pentachlorophenol	189
D018 - Benzene	25	D038 - Pyridine	205
D019 - Carbon Tetrachloride	44	D039 - Tetrachloroethylene	213
D020 - Chlordane	46	D040 - Trichloroethylene	226
D021 - Chlorobenzene	48	D041 - 2,4,5-Trichlorophenol	228
D022 - Chloroform	55	D042 - 2,4,6-Trichlorophenol	229
D023 - o-Cresol	64	D043 - Vinyl Chloride	236

⁶ Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA 823-B-90-010, as incorporated by reference in 40 CFR 260.11, with sample size of 10 grams and a distillation time of 1 hour and 15 minutes.

⁷ These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at 268.2(i).

⁸ Between August 26, 1996, and August 26, 1997, these constituents are not "underlying hazardous constituents" as defined at 268.2(i) of this part.

⁹ This constituent is not an underlying hazardous constituent as defined at 268.2(i) of this part because its UTS level is greater than its TC level, thus a treated selenium waste would be characteristically hazardous, unless it is treated to below its characteristic level.